CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, April 19, 1906.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Apr.				
•19	Sewers	Pensacola, Fla	P. S. & B. S.	3-22
•10	Paving, etc.	Hattiesburg, Miss.	S. & B. S.	3-29
•19	Irrigation ditches	Hazen, Nev.	P. S. & B. S.	3-15
—	Dredging	Panama	S. & B. S.	3-15
26	Engines	Philadelphia, Pa	S	3-22
28	Building	Portsmouth, N. H	S	3-29
28	Building	Charleston, S. C	S	3-22
•28	Power plant	Garden City, Kan.	S	4- 5
28	Filling & gdng.	Charleston, S. C.	S	4-12
May				
•2	Telephone system	Salt Lake City, Utah	S. & B. S.	3-15
4	Wharf sheds & Rys.	Manila, P. I.	P. & S.	3- 1
8	Sewers	New Orleans, La	P. & S.	3- 8
•10	Dam	Billings, Mont	P. & S.	4- 5
Sept.				
15	Hotel bldg.	Manila, P. I.	S	3-29

•Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

Bids close.	Work.	Place.	On file.	See issue.
	LIGHT, HEAT AND POWER PLANTS.			
Apr. 19	Light plant improvements	Palo Alto, Cal.		Apr. 5
Apr. 23	Light plant	Grand Island, Neb		Apr. 5
Apr. 23	Elec. and water plant	Highlands, N. J.		Apr. 19
	Advertised, Eng. News, Apr. 19.			
May 28	Elec. power plant	Garden City, Kan		Apr. 5
	Advertised, Eng. News, Apr. 5 to May 10.			
Apr. 30	Power plant for sale	Erindale, Ont		Mar. 22
	Advertised, Eng. News, Mar. 22 to Apr. 5.			
May 2	Lighting	Washington, D. C		Apr. 12
July 5	Water power for sale	Kenora, Ont		Mar. 15
	Advertised, Eng. News, Mar. 15.			
No date	Gas pipe line	Cincinnati, O		Feb. 15
No date	Power plant	Goodwater, Ala		Mar. 1
	BRIDGES.			
Apr. 20	Bridge	Reading, Pa		Apr. 5
	Advertised, Eng. News, Apr. 5.			
Apr. 20	Wing walls for bridge	Dayton, O		Apr. 19
Apr. 21	Bridge repairs	Memphis, Tenn		Apr. 5
Apr. 23	Bridge	Amarillo, Tex		Apr. 12
Apr. 24	Bridges	Fremont, Neb		Apr. 12
Apr. 25	Steel bridge	Stamford, Tex		Apr. 19
Apr. 28	Bridges	Garden City, Kan		Mar. 29
	Advertised, Eng. News, Mar. 29 to Apr. 19.			
Apr. 30	Iron draw-bridge	Belzona, Miss		Mar. 15
	Advertised, Eng. News, Mar. 15 to Apr. 19.			
Apr. 30	Superstructure, etc.	New York, N. Y.		Apr. 12
	Advertised, Eng. News, Apr. 12 to 26.			
Apr. 30	Concrete bridge	Oakland, Cal		Apr. 19
May 2	Steel bridge	Twickenham, Ore		Apr. 19
May 5	Bridges	Grand Rorks, N. Dak		Apr. 19
May 7	Bridge	Lawrence, Ind		Apr. 12
May 14	Bridge cables for sale	Pawnee, Okla.		Apr. 19
	Advertised, Eng. News, Apr. 19 and 26.			
May 15	Five bridges	Belle Fourche, S. Dak		Apr. 19
	Advertised, Eng. News, Apr. 19 to May 10.			
May 19	Steel bridge	Souris, Man		Apr. 19
May 19	Highway bridge	San Juan, P. R		Apr. 12
	Advertised, Eng. News, Apr. 12 to 26.			
June 30	Bridges	St. John, N. B		Apr. 12
	BUILDINGS.			
Apr. 19	Asylum	Bathgate, N. Dak		Apr. 5
Apr. 21	Mech equipment	Washington, D. C		Mar. 22
	Advertised, Eng. News, Mar. 22 to Apr. 12.			
Apr. 23	School	Nineveh, Ind		Apr. 19
Apr. 25	Church	Bowling Green, O		Apr. 5
Apr. 25	Stairways, etc.	Washington, D. C		Apr. 12
	Advertised, Eng. News, Apr. 12 and 19.			
Apr. 25	Iron stairways, etc., schools	Wash., D. C.		Apr. 12
	Advertised, Eng. News, Apr. 12 and 19.			
Apr. 26	School	Dayton, O		Apr. 19
Apr. 28	Building	Charleston, S. C		Mar. 22
Apr. 28	Building	Portsmouth, N. H		Mar. 29
Apr. 30	Hospital	Sheridan, Wyo		Apr. 12
Apr. 30	Plumbing, House Office Building	Washington, D. C		Apr. 12
	Advertised, Eng. News, Apr. 12 to 26.			
Apr. 30	Plumbing	Washington, D. C		Apr. 12
	Advertised, Eng. News, Apr. 12 to 26.			
May 1	Barracks	Cheyenne, Wyo		Apr. 5
	Advertised, Eng. News, Apr. 5 to 26.			
May 1	Elevator, fixtures, etc.	Wash., D. C.		Apr. 5
	Advertised, Eng. News, Apr. 5 to 26.			
May 1	Court-house	Colby, Kan		Apr. 19
May 3	Hospital	Boston, Mass		Apr. 12
May 4	Hospital	Prescott, Ariz		Apr. 5
	Advertised, Eng. News, Apr. 5 to 26.			
May 7	High school	Rockford, Ill		Apr. 19
May 7	School building	Atheus, O		Apr. 19
May 8	Court-house	Woodsfield, O		Apr. 19
May 11	Post-office and court-house	Los Angeles, Cal		Apr. 12
May 14	Court bldg, etc.	White Plains, N. Y.		Apr. 19
	Advertised, Eng. News, Apr. 19 to May 10.			
May 15	Jail	Folkestone, Ga		Apr. 19
Sept. 15	Hotel	Manila, P. I		Mar. 29
	WATER SUPPLY AND IRRIGATION.			
Apr. 19	Sale of water-works boilers	Buffalo, N.Y.		Apr. 19
Apr. 20	Water pipe	Charleston, N. H		Apr. 12
Apr. 20	Deep well	Parker, Colo		Apr. 12
Apr. 24	Water system	Roff, Ind. T		Mar. 29
	Advertised, Eng. News, Mar. 29 to Apr. 12.			
Apr. 23	Water-works	East Orange, N. J		Apr. 12
	Advertised, Eng. News, Apr. 12 and 19.			
Apr. 24	Reservoir & pipes	Port Townsend, Wash.		Apr. 12
Apr. 24	Reservoir	Fort Flager, Wash		Apr. 12
Apr. 24	Water-works	Oklahoma City, Okla		Apr. 12
Apr. 25	Water-works	Albia, Ia		Apr. 12
Apr. 25	Cypress cisterns	Egmont, Fla		Apr. 12
Apr. 26	Pumping engine	Bowling Green, Ky		Apr. 12
Apr. 26	Reservoir	Indiana, Pa		Apr. 12
	Advertised, Eng. News, Apr. 12 and 19.			
Apr. 26	Engines, etc.	Philadelphia, Pa		Mar. 22
	Advertised, Eng. News, Mar. 22 and 29 and Apr. 19.			
Apr. 26	Pumping engine	Bowling Green, Ky		Apr. 5
	Advertised, Eng. News, Apr. 5 to 19.			
Apr. 26	Pipe and furnishings	Melrose, Mass		Apr. 19
Apr. 27	Pumps	Cincinnati, O		Apr. 5
Apr. 28	Water-works	Asbury Park, N. J		Apr. 12
	Advertised, Eng. News, Apr. 12 and 19.			
Apr. 28	Furnishing 200 tons of 12-in. c.-i. water pipe	Washington, D. C		Apr. 12
	Advertised, Eng. News, Apr. 12 and 19.			
Apr. 30	Water-works	Buena Vista, Ga		Apr. 12
	Advertised, Eng. News, Apr. 12 and 19.			
Apr. 30	Water-works plant	Muskegon, Mich		Apr. 19
	Advertised, Eng. News, Apr. 19 and 26.			
Apr. 30	Pumping machinery	Plattsburg, N. Y.		Apr. 19
	Advertised, Eng. News, Apr. 19 and 26.			
May 1	Water meters	Bayonne, N. J		Apr. 19
	Advertised, Eng. News, Apr. 19.			
May 1	Deep well	Waterloo, Ia		Apr. 19
May 1	Water-works improvement	Cincinnati, O.		Apr. 12
	Advertised, Eng. News, Apr. 12 and 19.			
May 1	Well	Waterloo, Ia		Apr. 5
May 1	Drilling deep well	Waterloo, Ia		Mar. 29
	Advertised, Eng. News, Mar. 29 and Apr. 5.			
May 1	Water pipe	Toronto, Ont		Mar. 29
	Advertised, Eng. News, Mar. 29 to Apr. 12.			
May 7	Pipe laying	Perrysburg, O		Apr. 19
	Advertised, Eng. News, Apr. 19.			
May 15	Water pipe	New Orleans, La		Apr. 5
No date	Dam	Marietta, Ga		Mar. 29
No date	Water-works franchise	Cloquet, Minn		Mar. 29
No date	Irrigation ditch	Harlingen, Tex		Mar. 29
	SEWERAGE.			
Apr. 19	Sewers	Pensacola, Fla		Mar. 8
Apr. 20	Sewers	Olean, N. Y		Apr. 12
Apr. 23	Sewers	Bronxville, N. Y		Apr. 12
	Advertised, Eng. News, Apr. 12.			
Apr. 25	Sewers	Brooklyn, N. Y		Apr. 19
Apr. 27	Sewers	McCook, Neb		Apr. 12
	Advertised, Eng. News, Apr. 12.			
Apr. 28	Pipe sewers	Gadsden, Ala		Apr. 19
	Advertised, Eng. News, Apr. 19.			
Apr. 30	Sluice gates	Washington, D. C		Apr. 19
	Advertised, Eng. News, Apr. 19 and 26.			
Apr. 30	Sewage disposal plant	Far Rockaway, N. Y		Apr. 19
May 1	Sewers	Springfield, Mo		Apr. 12
May 2	Sewers	Milledgeville, Ga		Apr. 12
May 4	Sewer	Jacksonville, Fla		Apr. 19
May 4	Sewerage	Norwich, N. Y		Apr. 19
	Advertised, Eng. News, Apr. 19 and 26.			
May 8	Sewers	New Orleans, La		Mar. 8
	Advertised Eng. News, Mar. 8 to May 3.			
May 12	Sewers	Pittsburg, Pa		Apr. 12
June 26	Sewer	Vacaville, Cal		Apr. 5
No date	Sewer	Pueblo, Colo		Apr. 19
	STREETS AND ROADS.			
Apr. 19	Paving, etc.	Brazil, Ind		Apr. 12
Apr. 19	Brick paving	Paris, Tex		Mar. 22
	Advertised, Eng. News, Mar. 22.			
Apr. 20	Paving and grading	Keyser, W. Va.		Apr. 5
Apr. 21	Macadam paving	Oshkosh, Wis		Apr. 12
Apr. 23	Grading, etc.	Quincy, Mass		Apr. 12
Apr. 23	Grading, etc.	Quincy, Mass		Apr. 12
Apr. 23	Paving	Bronxville, N. Y		Apr. 12
	Advertised, Eng. News, Apr. 12.			
Apr. 23	Paving	Louisville, Ky		Apr. 19
Apr. 23	Brick pavement	Dallas, Tex		Apr. 19
Apr. 24	Grading, etc.	New York		Apr. 19
Apr. 24	Paving, etc.	Auburn, N. Y		Apr. 19
	Advertised, Eng. News, Apr. 19.			
Apr. 24	Paving	Camden, N. J		Apr. 19
Apr. 24	Paving	Champaign, Ill		Apr. 12
	Advertised, Eng. News, Apr. 12.			
Apr. 24	Brick paving	Holly Beach, N. J		Apr. 12
	Advertised, Eng. News, Apr. 12 and 19.			
Apr. 25	Paving	West Tampa, Fla		Apr. 5
	Advertised, Eng. News, Apr. 5 to 19.			
Apr. 26	Roads	Rensselaer, Ind		Apr. 12
Apr. 27	Sidewlk & curbing	Le Seur Center, Minn.		Apr. 12
Apr. 28	Grading, etc.	Charlestown, S. C		Apr. 12
Apr. 28	Pavement	South Bend, Ind		Apr. 19
Apr. 28	Curbs and gutters	Ogden, Utah		Apr. 19
Apr. 30	Paving, etc.	Atlantic City, N. J		Apr. 19
	Advertised, Eng. News, Apr. 19.			
Apr. 30	Resurfacing	Sacramento, Cal		Apr. 19
Apr. 30	Grading, etc.	Boro. of Queens, N. Y		Apr. 19
Apr. 30	Street improvements	Kokomo, Ind		Apr. 19
Apr. 30	Repaving	Great Falls, Mont		Apr. 12
	Advertised, Eng. News, Apr. 12 and 19.			
May 1	Paving	Evansville, Ind		Apr. 12
May 1	Sidewalks	St. Paul, Minn		Apr. 12
May 1	Gravel streets	Springfield, Mo		Apr. 12
May 1	Repair pavements	Buffalo, N. Y		Apr. 19
May 7	Gravel roads	Rockville, Ind		Apr. 19
May 7	Paving & curbing	Portsmouth, Va		Apr. 12
	Advertised, Eng. News, Apr. 12 and 19.			
May 8	Road construction	Boston, Mass		Apr. 12
May 8	Macadamized roads	Vincennes, Ind		Apr. 12
May 8	Road	Brazil, Ind		Apr. 12
May 8	Macadam roads	Princeton, Ind		Apr. 19
May 8	Gravel roads	Versailles, Ind		Apr. 19
May 8	Macadam road in Ripley County	Versailles, Ind		Apr. 19
May 8	Macadam road	Madison, Ind		Apr. 19
May 11	Grading, paving, etc.	Suffolk, Va		Apr. 19
	Advertised, Eng. News, Apr. 19 and 26.			
No date	Paving material	Phoebus, Va		Apr. 19
No date	Paving	Nashville, Tenn		Apr. 19
No date	Sidewalks	Oberlin, Kan		Mar. 29
	MISCELLANEOUS CONTRACTS.			
Apr. 19	Irrigation ditches	Hazen, Nev		Mar. 15
	Advertised, Eng. News, Mar. 15 to Apr. 5.			
Apr. 20	Ditch	Elgin, Ill		Apr. 5
Apr. 20	Sea wall	Coronado, Cal		Apr. 5
Apr. 20	Sprinkler	Holyoke, Mass		Apr. 12
	Advertised, Eng. News, Apr. 12.			
Apr. 20	Three-mile railroad	Florida		Apr. 19
Apr. 23	Dredging	Jacksonville, Fla		Apr. 5
	Advertised, Eng. News, Apr. 5 to 19.			
Apr. 23	Suction dredges	Panama		Mar. 15
Apr. 24	Crematory	Oswego, N. Y		Apr. 12
	Advertised, Eng. News, Apr. 12 and 19.			
Apr. 24	Naval supplies	Washington, D. C		Apr. 12
Apr. 24	Street signs	New York, N. Y		Apr. 19
Apr. 25	Electric railway	Skykomish, Wash		Apr. 19
Apr. 25	Bulkhead	Baltimore, Md		Apr. 12
	Advertised, Eng. News, Apr. 12 and 19.			
Apr. 25	Railroad work	Kanawha & W. Va		Apr. 5
	Advertised, Eng. News, Apr. 5 to 26.			
Apr. 25	Rock removal	New York, N. Y		Mar. 29
	Advertised, Eng. News, Mar. 29 to Apr. 19.			
Apr. 25	Ry. concrete masnry, etc.	Baltimore, Md.		Mar. 29
	Advertised, Eng. News, Mar. 29 to Apr. 12.			
Apr. 27	Tugboat supplies	Panama		Apr. 12
	Advertised, Eng. News, Apr. 12 and 19.			
Apr. 26	Tram track and cars	Philadelphia, Pa.		Apr. 19
	Advertised, Eng. News, Apr. 19.			
Apr. 28	Ditches	Crawfordsville, Ind		Apr. 19
Apr. 28	Cement	Wheeling, W. Va		Apr. 5
	Advertised, Eng. News, Apr. 5 to 26.			
Apr. 28	Drainage	Bergenfield, N. J		Apr. 12
	Advertised, Eng. News, Apr. 12 and 19.			
Apr. 28	Filling and grading	Charleston, S. C		Apr. 12
	Advertised, Eng. News, Apr. 12 and 19.			
Apr. 30	Dredging	Wilmington, Del		Apr. 19
	Advertised, Eng. News, Apr. 19 and 26.			
May 1	Ditch	Findlay, O		Apr. 12
May 1	R. R. grading, bridging, etc.	Kanawha & West Va. R. R		Apr. 12
	Advertised, Eng. News, Apr. 12 to May 3.			
May 1	Dredging	Butler, Mo		Apr. 12
	Advertised, Eng. News, Apr. 12 to 26.			
May 1	Steel dock	Chile (Foreign)		Nov. 9
May 2	Telephone system	Salt Lake City, Utah		Mar. 15
	Advertised, Eng. News, Mar. 15 to Apr. 5.			
May 2	Revetments	Chicago, Ill		Apr. 5
	Advertised, Eng. News, Apr. 5 to 26.			
May 2	Steel tug	Duluth, Minn		Apr. 5
	Advertised, Eng. News, Apr. 5 to 26.			
May 4	Wharf sheds & Rys.	Manila, P. I		Mar. 1
	Advertised, Eng. News, Mar. 15 to 29.			
May 7	Iron fence	Prescott, Ariz		Apr. 12
	Advertised, Eng. News, Apr. 12 and 19.			
May 7	Street cleaning	Washington, D. C		Apr. 19
	Advertised, Eng. News, Apr. 19 and 26.			
May 8	Hire of dredging plants	New York, N. Y.		Apr. 12
	Advertised, Eng. News, Apr. 12 to May 3.			
May 8	Dredging	New York, N. Y		Apr. 12
	Advertised, Eng. News, Apr. 12 to May 3.			
May 8	Tunnel	Boston, Mass		Apr. 19
	Advertised, Eng. News, Apr. 19 to May 3.			
May 8	Barge canal	Albany, N. Y		Apr. 19
May 9	Barge canal	Albany, N. Y		Apr. 19
May 10	Dikes	New York, N. Y		Apr. 12
	Advertised, Eng. News, Apr. 12 to May 3.			
May 10	Dam	Billings, Mont		Apr. 5
	Advertised, Eng. News, Apr. 5 to 26.			
May 14	Caisson lock-gates	Boston, Mass		Apr. 19
	Advertised, Eng. News, Apr. 19 and 26.			
May 14	Dredging	Detroit, Mich		Apr. 19
	Advertised, Eng. News, Apr. 19 to May 10.			
May 22	Vacuum cleaning	San Francisco, Cal.		Apr. 19
	Advertised, Eng. News, Apr. 19 and 26.			
May 24	Canal	Billings, Mont		Apr. 12
	Advertised, Eng. News, Apr. 12 to May 10.			
May 24	Subway	Auburn, N. Y		Apr. 19
	Advertised, Eng. News, Apr. 19.			
May 28	Lock and dam	Dallas, Tex		Apr. 12
	Advertised, Eng. News, Apr. 12 & 19 and May 17 & 24.			
June 2	Two battleships	Washington, D. C		Apr. 5
June 6	Dredging plant	Cuba		Apr. 5
	Advertised, Eng. News, Apr. 5 to May 31.			
No date	Electric railway	La Salle, Ill		Apr. 12
No date	Brick, terra cotta	Lowell, Mass		Mar. 1
	Advertised, Eng. News, Mar. 1.			
No date	Cement	Chicago, Ill		Mar. 15
	Advertised, Eng. News, Mar. 15.			
	CIVIL SERVICE EXAMINATIONS.			
Apr. 23	Rodmen	Chicago, Ill		Apr. 12
Apr. 26	Arch. Draftsmen	Chicago, Ill		Apr. 12
Apr. 24	Topograph Dftsman	New York, N. Y		Mar. 29
	Advertised, Eng. News, Mar. 29 and Apr. 5.			
Apr. 25	Arch. Draftsman	New York, N. Y		Mar. 19
Apr. 25	Mint Apprentice	Washington, D. C		Apr. 5
May 2	Engr. Draftsman	Wheeling, W. Va		Apr. 5
May 2	Elec. Assistant	Washington, D. C		Apr. 5
May 3	Asst. Elec. Engr.	California		Apr. 5
May 9	Nautical Expert	Washington, D. C		Apr. 12

TO ENGINEERS AND CONTRACTORS

ENGINEERING NEWS desires to obtain the **earliest possible reliable information** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

ADDRESS

Wainwright A. S. Randall, Editor,
The Construction News Department.

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ARGENTINE CENTRAL RY.—Edward J. Wilcox, Pres., 316 Colorado Bldg., Denver, Colo., states that this company is building a railroad from Silver Plume to Mount McClellan, Colo., 71 miles, via Pavilion, Point Sydney, Waldorf and Tobin. The road crosses two mountain ranges, Mount McClellan is practically the summit of Gray's Peak. Leving Silver Plume, the road crosses Leavenworth Mountain following the southeast side of the mountain until it reaches the Waldorf mining region, at the foot of Argentine Pass. The ascent of Mount McClellan is then begun, and with two switchbacks an altitude of 14,007 ft. on Gray's Ridge is reached. Nine miles of the line have been completed and the entire road is to be finished by July 15. The road is being built for transporting ores from the Waldorf and other mines, but it is expected to develop a large tourist business, it is said. A. H. Osborne, Georgetown, Colo., is Ch. Engr.

BRUSH CREEK & CROWS RUN.—A charter has been granted to this company in Pennsylvania. Capital, $100,000. Company will build a railroad from a point of connection with the Pittsburg & Western, near North Sewickley station, in Beaver County, to a point of connection with the Ohio River Junction Railroad, near New Sewickley. H. C. Parker, Pittsburg, Pa., is Pres.

BALTIMORE & OHIO.—Contract has been awarded to ROYDHOUSE, AREY & CO., of Philadelphia, Pa., for extensive improvements on tract bounded by Moore, Jackson and 36th Sts., and Schuylkill River. The improvements will give greatly increased facilities and expedite the handling of the company's largely increased business. The entire work to be done will involve an expenditure of between $600,000 and $700,000, including the enlarging of the terminal yards and the laying of a large amount of new track, which will provide accommodations for a number of cars and locomotives. The new buildings and yard improvements will require considerable filling.

COLORADO, OKLAHOMA & SOUTHERN. B. F. Waggener, Pres., Kahoka, Mo., writes us that this line will be 520 miles long, from Shreveport, La., through Texas, Indian Territory, Oklahoma, Texas, New Mexico, and to Pueblo, Colo. An engineer will soon begin surveys for the proposed line.

CHICAGO & NORTHWESTERN.—E. C. Carter, Ch. Engr., advises us that company will do its own construction work in proposed elevation of the tracks of the Galena division from 42d Ave., Chicago, where the elevation now stops, to Oak Park, a distance of three miles. The work is in charge of C. S. Hall, Engr. Track Elevation, at Chicago. It will cost approximately $1,000,000, bringing the total spent by the road for this purpose in Chicago up to $10,000,000. Noted previously.

CINCINNATI, BLUFFTON & CHICAGO.—John C. Curtis, Gen. Mgr., Portland, Ind., informs us that company is now operating 30 miles of the proposed 75 miles. It is announced that the remaining distance will not be completed this year. The line will eventually extend from Huntington to Union City, Ind. It now runs from Bluffton to Reiffsburg, Petroleum, Nottingham, Fiat, Balbec, Pennville, Corkwell and Portland. William S. Fleming, Portland, is Receiver.

CARETTA RAILWAY.—Company has been incorporated in West Virginia, to build a railroad along Barrenshoe Creek in McDowell County. Capital stock, $25,000. Incorporators: George L. Carter, B. H. Davis, A. Kyle Morrison, J. Norment Powell and T. F. Davis, all of Bristol, Tenn. Mr. Carter is Pres. of the South & Western.

CENTRAL RAILROAD OF LOUISIANA.—Incorporated in Louisiana to build a railroad from New Orleans, west to the state line. Capital stock, $1,000,000. Officers: C. C. Henshaw, Pres.; W. J. Burke, Vice-Pres.; John Broussard, Treas.; H. J. Mead, Secy.

COAST LINE RY.—It is officially stated that this road, a branch of the Southern Pacific, will be 68 miles in length, extending from Santa Cruz, Cal., to near Colma (via Davenport, San Gregorio, Pascadero and Half Moon Bay). The line is under construction from Santa Cruz to Davenport and track has been laid for a short distance out of Santa Cruz. The SHATTUCK & DESMOND CONSTRUCTION CO., of Los Angeles, Cal., has the contract. Wm. Hood, San Francisco, is Ch. Engr.

CHESAPEAKE & OHIO.—It is reported that this company is about to issue specifications for building 40 miles of additional second track, to cost about $1,000,000. The work will be done east of Richmond, near Gladstone, and near Maysville, Ky. The work east of Richmond, between Richmond and Newport News, will make the entire line, when the work already under way and that now contemplated is completed, a double-track road, with the exception of a small gap of 16 miles between Elko and Walker. F. I. Cabell, Engr. M. of W., Richmond, Va.

CANADIAN PACIFIC.—This company has given a $1,250,000 contract to the ROSS-HARRIS COMPANY, Ltd., recently formed in Montreal, Que. The contract calls for the building of a 50-mile section of this company's line between Parry and Byng Inlet on the new Toronto-Georgian Bay line, which is being built to give the Canadian Pacific a direct connection between Toronto and its main line to the west. It is said that the work is particularly difficult, and that a large part of it will have to be built through rock. Work is to be started immediately.

DANVILLE & SCOTTSVILLE.—Incorporation has been granted this company in Kentucky, with a capital of $25,000, to build a railroad from Danville southwest through the counties of Boyle, Lincoln, Casey, Metcalf, Adai and Barren to Scottsville, in Allen County, about 100 miles. The incorporators are: J. G. Taylor, of Chicago; G. B. Cooper, Stanford; J. S. Murphy, McKinney; J. Brown, Liberty; J. B. Coffey, Columbus; J. H. Allen, Somerset, and J. Follette, M. M. Perkins, Ralph Leach and J. F. Allen, all of Cincinnati.

FLORIDA.—Bids are asked by E. E. Davis, Engr., Dunnellon Phosphate Co., Dunnellon, Fla., until April 29, for building three miles of railroad. Bids may be submitted as follows: Clearing and grubbing three miles of road; grading three miles of road; furnishing and placing 9,600 cross ties; laying, surfacing and lining three miles of track. Bids for any one item of the work will be considered, but prefer to let the whole to one contractor.

ILLINOIS CENTRAL.—We are officially advised that the Terminal Railroad, the Illinois Central Railroad and the Southern Railway companies have begun raising their tracks around East St. Louis, Ill., in order to build a levee to protect East St. Louis from the overflow of the Mississippi River. The work is being carried on under the direction of the engineering departments of the various roads and the City Engineer of East St. Louis, Ill., W. J. Crocken.

MINNEAPOLIS & ST. LOUIS.—WINSTON BROS., of Minneapolis, Minn., are said to have been awarded the contract for building the extension from Watertown, S. Dak., northwest about 150 miles, to a point in McPherson County, with a branch from Conde west to the Missouri River, about 100 miles. H. G. Kelly, Minneapolis, Minn., is Ch. Engr.

MISSISSIPPI CENTRAL.—O. A. GIBSON has been awarded the contract for grading 20 miles from Natchez, Miss., east on the extension from Brookhaven to Natchez, it is reported.

MOUNT HOOD R. R.—Joseph A. West, Ch. Engr., Hood River, Ore., informs us that 17 miles of line are graded and track laid on proposed 25-mile line to Odell. The projected extension from Dee to Mount Hood is still indefinite.

NEW YORK, NEW HAVEN & HARTFORD.—At a meeting in New York on April 6 the directors authorized the construction of a relief line from a point on the main line between Greenwich and Port Chester, N. Y., through Ridgefield to a point on the New England Railroad west of Danbury, Conn., about 30 miles. The line will be double-tracked. The object is said to be to shorten the main line into the Berkshire hills and to turn a portion of the freight business from the New York division to the New England Railroad.

NORTH & SOUTH TEXAS.—We are officially advised by P. A. McCarthy, Ch. Engr., at Lufkin, Tex., that bids will be received about May 10 for constructing this line. It will extend from Lufkin to Groveton, Tex., about 35 miles. Survey is now being made; two-thirds of right-of-way is secured. Capital is secured.

QUEEN & CRESCENT.—It is announced that extensive improvements are planned to cost possibly $4,000,000. The WESTERN STEEL CAR & FOUNDRY CO., Anniston, Ala., has contract for 1,000 new cars, according to the Nashville (Tenn.) "Banner." W. A. Garrett is Gen. Mgr., at Cincinnatio, Ohio.

TRANS-CONTINENTAL RY.—It is announced that the Dominion Government last week awarded contracts for construction of two sections of the National Trans-Continental railway, aggregating in cost about $19,000,000. Contract for the western section from Winnipeg to Superior Junction, a distance of 245 miles, was awarded to J. D. MACARTRUR, of Winnipeg, Man. It is reported that sub-contracts will be let at once by Mr. MacArthur. Contract for eastern section, from Quebec to La Tuque, a distance of 150 miles has been awarded to HOGAN & McDONALD, of Montreal, Que., at about $5,300,000.

The contract for the Cape Rouge viaduct has gone to the DOMINION BRIDGE CO., of Montreal, at $320,000. The contractor for the Winnipeg-Superior section has until October, 1907, in which to complete the work. The western section is expected to be completed in time to carry the wheat crop of the season of 1907 as far as Lake Superior.

The Grand Trunk Pacific expects to have the Lake Superior Branch extended to meet the main line by then, and also to have the Prairie section as far west as Edmonton ready for business.

WESTERN PACIFIC.—Bids are asked, at once, by V. G. Bogue, Ch. Engr., Safe Deposit Bldg., San Francisco, Cal., for building 109 miles of this line in Nevada. This will include practically all of the heavy work not yet let, between San Francisco and Salt Lake. This section extends from the Nevada-Utah boundary to Deeth on the Humbolt River, and includes about 25 miles or more of heavy rock work and all the tunnel work included in the plans in the eastern part of Nevada. Plans have been approved for a tunnel 12,000 ft. long through the Gosiute Mountains, and bids will soon be called for this work. It is expected to have about 8,000 men at work between Salt Lake and San Francisco during the summer. The San Francisco "Call" states that "the tunnel will be, with the exception of the Cascade Tunnel on the Great Northern, the longest tunnel in the United States. Engineer Bogue estimates that the total cost of the construction of this 110 miles through Nevada will amount to over $5,000,000. The Western Pacific will pay the contractors as the work progresses."

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capitol letters.

NEW HAVEN, CONN.—Charles S. Mellen, Pres. of the New York, New Haven & Hartford R. R. Co., recently made the announcement, according to the Boston "Transcript," that "the revision of the air line of the Boston & New York Air Line Railroad between New Haven and Willimantic, Conn., and the New England Railroad between Willimantic and Boston will make a line approximately 200 miles in length between New York and Boston, upon which trans can be run easily in four hours by steam and in less time by electricity, and at as low a fare as upon any other road in existence, or proposed or even theorized about. Such a line the New Haven management has in contemplation; the engineers are now at work upon it, the financing of the same has been provided for, and the line itself will be available for use before charters even can be obtained for such a line as is referred to in the article in question."

MIDDLEPORT, N. Y.—At a meeting of the trustees recently, a trolley franchise was granted to the Buffalo, Lockport & Rochester Railway Co. by the village of Middleport, with a provision that work must be commenced April 1, 1908, and completed within six months thereafter.

NEWARK, N. J.—The New York "World" on April 12, announced that "the directors of the Pennsylvania Railroad Co., to-day authorized President Cassatt to enter into an agreement with the Hudson River Tunnel Co. for the joint use of the railroad company's right-of-way between Jersey City and Newark. It is the intitial step toward an extensive rapid-transit system between the cities named. Improvements aggregating a cost of $500,000 were also authorized by the board. Under the terms of the contract to be entered into by the two corporations the Hudson River Co. is to build an electric railway between Newark and Jersey City for the commuters who travel between Newark and New York. The tracks of the new line will parallel the Pennsylvania road tracks into Jersey City, where they will then descend into the McAdoo tunnels from a point under the railroad station on the North River in Jersey City to the foot of Cortlandt St., in New York City.

NORFOLK, VA.—Several electric railway and lighting properties in this section of Virginia have been merged under the name of the Norfolk & Portsmouth Traction Co., and the capitalization is to include $6,000,000 in stock and $8,000,000 in bonds. There will be an immediate issue of $3,500,000 of bonds and $5,000,000 of stock. R. Lancaster Williams, now Pres. of the Norfolk Railway & Lighting Co., which owns the largest properties absorbed, is to be President, and E. C. Hathaway, now Gen. Mgr. of the Norfolk Ry. & Lighting Co., General Manager. The merger line will build a new interurban line from Portsmouth to Suffolk and Smithfield, Va., and control new lines to be extended to the Jamestown Exposition ground on Hampton Roads.

EAST LIVERPOOL, O.—William V. Polleys, Res. Ch. Engr., Westinghouse, Church, Kerr Co., informs us that the item in Engineering News, regarding the East Liverpool Traction & Light Co., on April 5 is not authentic as such information has not been given out by himself.

GALLIPOLIS, O.—The Gallipolis, Huntington, Norton, Portsmouth & Columbus Tramway Co. has been incorporated by Col. A. E. Boone, I. W. Marquard, F. J. Terry, M. E. Boone and G. O. Boone. It is proposed to build a line paralleling the Ohio River from Gallipolis to Portsmouth. The project is headed by A. E. Boone, of Zanesville, who has projected a large number of roads in southeastern Ohio.

KENTON, O.—The Chamber of Commerce of this place has requested the Columbus, Delaware & Marion Railway Co. to build a branch line from Marion to Kenton, giving the latter place communication with Columbus. J. G. Webb, Pres. of the company, at a recent conference agreed to give the proposition consideration, it is said.

MANSFIELD, O. — James Galbraith, Charles Melly and W. J. Pent who some years ago secured a franchise in this city for entrance for their proposed line to Mt. Vernon, have been granted an extension of their franchise to May 1, 1908.

COLDWATER, MICH.—It is reported that the Battle Creek & Coldwater Electric Ry. Co. has bought and paid for all of its right-of-way from Battle Creek, through Athens and Union City, to Coldwater. The third-rail system is to be used. It is expected that construction will begin this summer.

GRAND RAPIDS, MICH.—H. B. Slocum, of Hubbardston, Mich., has interested capitalists in a project to build an electric road from Grand Rapids to Saginaw, by way of St. Louis, Alma, Sumner, Carson City and Crystal Lake.

ST. IGNACE, MICH.—Business men of this place have conferred with Charles H. Chapman, promoter of the Sault Ste. Marie & Les Cheneaux Electric Ry., to extend the road to this village.

BLOOMINGTON, ILL.—Contract for grading Peoria line of the Illinois Traction System from Bloomington west to Decatur has been awarded to S. A. TUTTLE & BRO., of Decatur, Ill.

DES MOINES, IA.—Contract for a 22-mile section of grading for the Newton & Northwestern R. R. Co.'s line between Des Moines and Kelley and between Kelley and Ames, Ia., has been awarded to PETER SHUGART and J. L. STEVENS, of Boone, Ia.

FRANKLIN, ARK.—We are officially advised that the Springriver, Ash Flat & Franklin R. R., which was recently incorporated in Arkansas, has not yet determined upon route for its proposed line. It will run from a point on the St. Louis & San Francisco R. R. to Ash Flat and Franklin, Ark., about 30 miles. S. L. Guthrie, Franklin, is Pres. This company will be ready to engage its chief engineer about the latter part of the month. Capital is partly secured. Contracts for construction will be let at once.

SKYKOMISH, WASH.—We are officially advised that bids will be received on April 25 for constructing line for the Seattle-Boston Copper Co., from Tonga, on main line of Great Northern Ry., to Crystal Valley. Surveys are under way and nearly completed. Right-of-way is secured from government. Capital for construction is ready. Charles E. Crane, 419 Alaska Bldg., Seattle, is Pres. and K. G. Dunn is Ch. Engr.

FORT SMITH, ARK.—We [illegible] officially advised that surveys are in [illegible] Sebastian Electrical Co., of [illegible] proposed line from Fort Sm[illegible] necting with mining towns [illegible] ing done by the company's [illegible] tracts have been awarded. [illegible] Fort Smith, Ark., is Pres.

SAN FRANCISCO, CAL.—[illegible] received on April 9 for bu[illegible] St. underground electric [illegible] railroad, as follows: Healy-T[illegible] tion Co., 95 Market St., $[illegible] Bldg. Co., Hobart Bldg., $[illegible] Gulf & Pacific Co., 220 Mark[illegible] C. E. Loss, Flood Bldg., $[illegible] local firms.

SAN DIEGO, CAL.—Martin [illegible] Const. Engrs., South Park & [illegible] Co., writes us that this corp[illegible] pleted one mile of line wh[illegible] operation by May 1. The co[illegible] to build six miles of doubl[illegible] this city. All construction w[illegible] the company, excepting bridg[illegible] by contract. Thos. Rendle is [illegible] Mgr.

FRESNO, CAL.—We are off[illegible] by A. J. Wishon, Mgr. Fres[illegible] that contracts for material fo[illegible] this city will be let probably [illegible] days. Company will build [illegible] Franchises are obtained. R. S. [illegible] Engr., Los Angeles, Cal.

CHATHAM, ONT.—George [illegible] American Consul at Chatham [illegible] under date of April 6th, that "[illegible] ric railway building has just [illegible] this part of the province of O[illegible] promises, within a few years [illegible] entire peninsula with interurban [illegible] necting practically all the tow[illegible] of any importance. The Chath[illegible] burg & Lake Erie Ry. Co. built [illegible] road from Chatham to Wallaceb[illegible] mer, and this summer will build [illegible] ham to Rondeau Harbor, on Lake Erie, a distance of 20 miles. Company also projects an extension from Wallaceburg to Sarnia, about 35 miles. W. N. Warburton is Gen. Mgr. and Pur. Agt., at Chatham.

"The Windsor, Essex & Lake Shore Ry. Co. is building from Windsor, Ont., to Chatham, a distance of 50 miles. The company has 27 miles of line graded and will begin in about ten days to lay rails. It is expected to have the line in operation between Windsor and Leamington by July 1.

"A charter has just been granted by the Ontario Legislature for an electric line from Erieau Lighthouse to Wallaceburg, about 45 miles long. Herbert D. Smith is the local representative, at Chatham. Another electric railroad project is for a line from Sarnia to London, Ont., a distance of about 90 miles. There is an active demand for electrical machinery, electric railway equipment and supplies, structural iron and steel, etc."

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—It is reported that the Boston & Maine R. R. will install electrical power for drawing its trains through Hoosac Tunnel soon. H. Bartlett, Boston, Mass., is Supt. of Motive Power.

FALL RIVER, MASS.—Blue prints of the new power house of the Fall River Electric Light Co. have been received by the superintendent of public buildings. The power house will be built at the foot of Hathaway St. as soon as the plans have been approved. Harry Bottomley is Supt. of the electric light company.

FAIRPORT, N. Y.—The Village Board has granted a franchise to W. A. Parce for piping the village for natural gas.

ORANGE, N. J.—Bids have been received from the United Electric Co. of New Jersey, at Orange, N. J., to light the streets of this city as follows: 2,000-candle-power lights, 5-yr. contract, $8,500; 3-yr. contract $9,250.

CAMDEN, N. J.—A bill has been passed permitting Camden to erect and operate a municipal electric light plant. L. E. Farnham is City Engr.

HIGHLANDS, N. J.—Bids are asked until April 23, 8.30 p. m., by Tunis H. Lane, Boro. Clk., for erection of municipal electric light and water plant. (Advertised, Engineering News.)

SCRANTON, PA.—It is reported that a plant is to be erected here for the manufacture of storage batteries with a capital of about $1,000,000.

SEAFORD, DEL.—A company has been formed to build a gas plant here, with a capital of $30,000.

HYATTSVILLE, MD.—A bill, authorizing the mayor and council to issue bonds amounting to $12,000 for the installation of an electric light plant, was ratified at an election held here March 31.

NORFOLK, VA.—A company is being formed, under the name of The Norfolk & Portsmouth Traction Co. This company will merge many of the light, power and traction companies in this part of Virginia.

ROCKMART, GA.—Following are the contracts awarded by the city of Rockmart for the equipment of the electric light plant here: Boiler, WALSH & WEIDER, Chattanooga; heater and pumps, PLATT IRON WORKS, Dayton, O.; complete electric equipment, FORT WAYNE ELECTRIC CO., Fort Wayne, Ind.; engine (12 ins. × 11 ins.), HARRISBURG FOUNDRY & MACHINE CO.; transformers, meters and lamps, NEWCOMER-MANRY CO., Atlanta. Joseph M. Roman & Co., Atlanta, are Des. Engrs.; J. A. Fambro is Mayor.

FORT PIERCE, FLA.—An electric light plant will be installed here by St. Lucie Ice Co.

NEW ORLEANS, LA.—The Bureau of Yards and Docks, Navy Dept., has awarded to the PENN BRIDGE CO., Beaver Falls, Pa., contract for the construction of a power-house for the navy yard here, at $31,540.

ERIN, TEN.—It is reported that a franchise has been granted to the Erin Electric Light and Illuminating Co., incorporated by W. M. Adams and others; capital, $5,000.

MADISONVILLE, KY.—Arrangements are being made for the construction by the city of an electric light plant, costing about $20,000.

EDDYVILLE, KY.—It is reported that the Kutlawa Water and Light Co. will install an electric light plant here.

GREENBURG, IND.—Two companies have been formed here: The Sandcreek Gas & Oil Co., by Henry Emmart and others, capital $20,000; The Citizens' Gas Supply Co., by Hal T. Kil[illegible] and others, capital $10,000.

GRAND RAPIDS, MICH.—THE GRAND RAPIDS EDISON CO. has been awarded the contract for lighting and power for the new Manufacturers' Building, which is owned by furniture exhibitors.

GRAND RAPIDS, MICH.—The Grand Rapids-Muskegon Water Power Electric Co. has let contracts for the construction of a second dam and plant at Croton to generate 12,000 HP.

PORT HURON, MICH.—The Practical Gas Construction Co., of North Chicago, Ill., has been granted a franchise to construct a gas plant in this city.

CRESTON, IA.—The Creston Mutual Gas Co. is applying to the city council for a franchise for a gas plant here.

PENDER, NEB.—The council has voted that an issue of $8,000 be made for the purpose of erecting an electric plant here.

LITTLE ROCK, ARK.—The Pulaski Gas-light Co., of this city, plans to spend about $100,000 for improvements to their plant.

ABILENE, TEX. — G. W. Swensen and others have incorporated the Abilene Light & Water Co., with a capital of $200,000.

SOMERVILLE, TEX. — The Somerville Light and Manufacturing Co., capital $10,000, has been chartered here. Incorporators: J. W. Lauderdale, J. D. Giddings and J. Louis Giddings.

SAN FRANCISCO, CAL.—Steam will be replaced by electricity for operating the Crockett Sugar Refinery.

PLACERVILLE, CAL.—See under Water Supply.

GODERICH, ONT.—H. Von Schon, Consult. Engr., Detroit, Mich., is preparing plans for a plant to be constructed by the Maitland River Power Co. on the Maitland River here.

SALT LAKE CITY, UTAH.—We are officially advised that the Mill Creek Power Co. has granted the GENERAL ELECTRIC CO. contract to furnish all electrical machinery, and ABNER DOBLE CO. contract to furnish water-wheels.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

TURNERS FALLS, MASS.—Contract for repairing the upper suspension bridge has been awarded to the UNITED CONSTRUCTION CO., of Albany, at about $10,000.

HAVERHILL, MASS.—The MILLER-COLLINS CO., 29 Broadway, N. Y., has been awarded the contract for general work, piers, etc., on the new bridge over the Merrimac River. Total cost of bridge will be $200,000. R. R. Evans is City Engr.

BOSTON, MASS.—The Wonderland Co., which is building an amusement park at Revere Beach, will erect an iron and steel footbridge 73 ft. long and 20 ft. wide, at a cost of about $10,000. The SHEA & ALDRICH CONSTRUCTION CO. have the contract.

RICHMOND, VA.—It is reported that the Richmond, Fredricksburg & Potomac R. R. Co. will build a two span iron bridge over its yards at Acca Station, at a cost of about $20,000. C. W. Haines, Richmond, is Ch. Engr.

NORFOLK, VA.—The Tidewater & Western R. R. Co. have plans prepared and will receive bids in a few days for the construction of a 2,800-ft. bridge over New River. H. Fernstrom, Norfolk, is Ch. Engr.

ASHEVILLE, N. C.—The Commissioners of Buncombe county have authorized the construction of five steel bridges, to cost about $5,000.

ATLANTA, GA.—Contracts for the construction of the Washington St. viaduct have been awarded as follows: First section, GRANT WILKINSON, Atlanta, at $66,180; second section, the OLIVER CO., Knoxville, Tenn., at $60,190. R. M. Clayton is City Engr.

LIMESTONE, TENN.—The CHATTANOOGA STEEL BRIDGE CO. has been awarded the contract for constructing a bridge over Limestone Creek, by the County Commissioners.

HENDERSON, TENN.—The County Court has authorized the erection of three steel bridges over Forked Deer River, and has appointed J. D. Johnson, W. C. Trice and others to investigate bids.

JACKSON, KY.—It is reported that the Kentucky Lumber & Veneer Co. has awarded the contract for steel bridge over the Kentucky River, to be 185 ft. long, to the CENTRAL STATES BRIDGE CO., Indianapolis, Ind.

DAYTON, O.—Bids are asked until noon, April 20, by the Board of Public Service for the construction of reinforced concrete wing walls at the Washington St. bridge. T. M. Paxton is Pres. Robt. E. Keine is City Engr.

PEORIA, ILL.—It is reported that contracts for the construction of a new bridge across the Illinois River at the foot of Walnut St. have been awarded as follows: Substructure, MARTHER BROS. CO., Chicago, and superstructure to the STROBEL STEEL CONSTRUCTION CO., Monadnock Bldg., Chicago. Contracts were awarded on the unit system.

A new wagon bridge will be built, it is reported, to cost about $175,000. E. A. Furry, Comr. Pub. Wks., will receive competitive plans until April 30.

PORTLAND, IND.—C. E. WALKER has been awarded the contract for construction of a steel bridge over the Salamonia River, near Ray Bridge. N. S. Current is City Engr.

RENSSELAER, IND.—We are officially advised that contract for the construction of two bridges, noted in issue of March 29, has been awarded to the PAN-AMERICAN BRIDGE CO., of New Castle, Ind.

MISHAWAKA, IND.—Wm. S. Moore, City Engr., writes us that he is preparing plans for the construction of only one bridge and not two as previously reported. Plans will be ready about May 1.

RACINE, WIS.—The Board of Public Works is having plans prepared for a new bridge at North Main St. P. H. Connolly is Chn.

FORT MADISON, IA.—The County Supervisors have decided to build a concrete arch bridge, with a 24-ft. roadway, on the West Point Road.

GRAND FORKS, N. DAK.—Bids are asked until 10 a. m., May 5, by the County Auditor, for the construction of all steel bridges to be erected by the county during the year 1906. Hans Anderson is County Audr.

BELLE FOURCHE, S. DAK.—Bids are asked until 4 p. m., May 15, at the office of the United States Reclamation Service, Belle Fourche, for constructing five steel highway bridges. R. F. Walter is Engr.-in-Charge.

STAMFORD, TEX.—Bids are asked until April 25, by the Commissioners of Jones County, for the construction of a steel bridge across Clear Fork River. G. W. Stamford, Comr.

GONZALES, TEX.—S. J. BEENE, of Houston, has been awarded the contract for building two steel bridges here, at $3,742. W. W. Glass is County Judge.

PAWNEE, OKLA.—Bids are asked until 6 p. m., May 14, by the Board of County Commissioners, for the sale of eight 1,190-ft. reels of 1½-in. galvanized bridge cables. Bids for less than one reel not considered. C. R. Adams, County Clk. (Advertised, Engineering News.)

DENVER, COLO.—Walter Sharp Brothers Co. bid $4,288 and the Commonwealth Construction Co. bid $4,500 for the construction of a concrete arch bridge near Guadaloupe.

LAMAR, COLO.—Contract for building a bridge across the Arkansas River just East of Lamar has been awarded to L. H. Manville, of Lamar, at $40,000. Bridge is to be built for the Arkansas Valley Ry. Co.

TACOMA, WASH.—We are officially informed that contract for a steel bridge with concrete piers, at Crocker, Wash., has been awarded to the NORTHWEST BRIDGE CO., of Tacoma, at $6,955. Geo. Thornton, Tacoma, is Engr.

SPOKANE, WASH.—It is reported that the Chicago, Milwaukee & St. Paul Ry. Co. will build two bridges across the Columbia River in the near future. D. J. Whittemore, Chicago, is Ch. Engr.

PORTLAND, ORE.—Douglas W. Taylor, City Engr., has been ordered to prepare plans for the construction of a reinforced concrete bridge across Sullivan's Gulch. The estimated cost is $63,000.

TWICKENHAM, ORE.—Bids are asked until May 2, by H. F. Heidlman, County Surv., Fossil, Ore., for the construction of a steel bridge over the John Day River.

CRESCENT CITY, CAL.—It is reported that bids will be asked for the construction of the Smith River bridge as soon as J. D. Leonard, Engr., has prepared the plans and specifications.

OAKLAND, CAL.—Bids are asked until 10 a. m. April 30, by John P. Cook, Clk., County Bd. Supervisors, for the construction of a concrete bridge across Sausal Creek.

LOS ANGELES, CAL.—The MERCEREAU BRIDGE & CONSTRUCTION CO. has been awarded the contract for building the Tropico Ave. bridge over the Los Angeles River, at $2,248.

PHOENIX, ARIZ.—It is reported that the Maricopa & Phoenix Ry. Co. will bridge the Gila River with a steel structure to cost about $120,000. T. C. McClure, Tucson, Ariz., is Ch. Engr.

BOISE, IDAHO.—George Irving, of Boise, has been awarded the contract for building a bridge for the Boise Valley R. R. Co., at $15,000.

SOURIS, MAN.—Bids are asked until May 19, by J. W. Breakey, for the construction of a bridge of two steel spans on concrete abutments, over the Souris River.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Contract for the construction of the Normal and Latin School group, bids for which were published last week, has been awarded to the G. A. FULLER CO., Board of Trade Bldg., Boston, at $663,988.

POUGHKEEPSIE, N. Y.—Percival M. Lloyd, Arch., of Poughkeepsie, has prepared plans for a 6-story bank and office building for the Poughkeepsie Trust Co. The building is to be of fireproof construction, and will have hydraulic elevator, three burglar-proof vaults, metal office fittings, metal window frames, etc. Estimated cost, $75,000. Bids will be received for construction about May 1.

SYRACUSE, N. Y.—Contracts for the Homeopathic hospital have been awarded as follows: Masonry, J. W. DAWSON; carpentry, C. J. SMITH; reinforced concrete, CONCRETE CONSTRUCTION CO., of Buffalo; plumbing and heating, GOLDIE & GILDEA. Total cost will be $70,000. Berlson & Brockway, of Syracuse, are Archs.

WHITE PLAINS, N. Y.—Bids are asked until 11 a. m., May 14, by the Committee, for the erection of a new Supreme Court Building, and an addition to the present Hall of Records; also for plumbing, heating and ventilating and electric wiring throughout the above buildings. Chauncey T. Secor, Chn. Com. on New Court-House. (Advertised, Engineering News.)

NEWARK, N. J.—Bids are asked until April 23 by the Board of Education for the erection of additions to four schools. Work includes steel and iron construction, masonry, etc. R. D. Argue is Secy.

Wm. E. Lehman, Arch., 142 Market St., is preparing plans for rebuilding the store of S. Scheuer & Sons, which was destroyed by fire recently, at a cost of $40,000.

WILKES-BARRE, PA.—Plans have been prepared by McCormick & French, Archs., Lanning Bldg., for a bank and office building to be erected for the Second National Bank. Structure will be 12 stories, stone and steel, fireproof, and will cost about $400,000.

PITTSTON, PA.—J. J. REILLEY has been awarded the contract for building a state armory at Pittston. Building will be two stories, 90 × 150 ft., steel construction. Contract price, $40,000.

PHILADELPHIA, PA.—Ballinger & Perrot, Archs., 1200 Chestnut St., have completed plans for a six-story concrete building, 22 × 132 ft., at No. 633 Market St., for Charles J. Field & Sons. The cost will be $50,000.

The Columbia Club, at the corner of Broad and Oxford Sts., proposes to build a $60,000 addition in the rear of the present clubhouse.

J. Horace Cook, Arch., of the Board of Education, has begun the preparation of plans for a $300,000 commercial high school for girls, to be erected on 15th St., between Green and Mt. Vernon Sts. The plans provide for a three-story and basement structure of granite, 150 × 100 ft.

BALTIMORE, MD. — Sunderson Bros., Archs., Savings Bank Bldg., Washington, D. C., are preparing plans for the erection of an addition to the hospital of the University of Maryland, to be of steel, brick and stone, five stories, 50 × 150 ft. The estimated cost is $175,000.

J. H. WALSH & BRO. have received the contract for the erection of a five-story building at 11 and 13 South Eutaw St. for the Summers Printing Co.

THE HOPKINS BARNETT CO. have received contract for the erection of a warehouse at 311 and 313 West Baltimore St. for Lawrence Turnbull. The building is to be 171 × 33 × 32 ft. It will be five stories high on Baltimore St. and six on German, and will cost $54,000. Bayard Turnbull is Arch.

WASHINGTON, D. C.—T. F. Schneider, Arch., Bond Bldg., has prepared plans and F. H. DUHOY has the contract for building an apartment house for the Burlington Apartment House Co. Building will be 156 × 125 ft. and will cost $450,000.

FOLKESTONE, GA.—Bids are asked until May 15 by S. F. Mills, Chn. Bd. County Comrs., for the erection of a jail.

NEW ORLEANS, LA.—The plans of Fredrick W. Brown, A. Ten Eyck Brown and P. T. Marye, of Atlanta, Ga., for the proposed new court-house have been accepted and bids will be asked as soon as working drawings are completed. It will be four stories high, 179 × 86 ft., and there will be a middle section, 80 × 80 ft. and a rear section 272 × 96 ft. The building will be constructed of reinforced cement and contain mechanical equipment for heating, lighting, ventilating, elevators, plumbing and other improvements. Estimated cost, $800,000.

DONALDSONVILLE, LA.—We are officially advised that the JEFFERSON CONSTRUCTION CO., Birmingham, Ala., have been awarded the contract for building the Donaldsonville High School, at $47,683.

MEMPHIS, TENN.—Shaw & Pfeil, Archs., are asking bids for the erection of a new home for the Business Men's Club. Steel frame work and pressed brick and stone. Cost will approximate $100,000.

DAYTON, O.—It is reported that the NOEL CONSTRUCTION CO., of Baltimore, has been awarded contracts for erecting a new five-story building for the National Cash Register Co. The new structure is to cost $1,000,000.

ATHENS, O.—Bids are asked until noon, May 7, for the erection of a grammar and high school building. C. M. Copeland is Clk. of the School Board. Van Leyen & Schilling, Detroit, Mich., are Archs.

WOODSFIELD, O.—Bids are asked by G. W. Stewart, County Audr., until noon, May 8, for the construction of a court-house for Monroe County, at Woodsfield. Samuel Hannaford & Sons, Cincinnati and Columbus, are Archs.

DAYTON, O.—Bids are asked until noon, April 26, by the Board of Education for the erection of an addition to the Longfellow School. Peters, Burns & Pretzinger, Reibold Bldg., are Archs.

TOLEDO, O.—J. W. Matz, Arch., is preparing plans for an $80,000 flat building to be erected by Dr. John Wright at Cherry and Sherman Sts. Building will be 80 × 121 ft., eight stories high.

TOLEDO, O.—General contract for the construction of the new 12-story Ohio Building has been awarded to the H. J. SPECKER CO. The TOLEDO-MASSILLON BRIDGE CO. will furnish the structural steel and the marble will be supplied by LLOYD BROS.

NINEVEH, IND.—Bids are asked by Thos. W. Craven, School Trustee, Nineveh Township, until 1.30 p. m., April 23, for the erection of a high school building.

ROCKFORD, ILL.—Bids are asked by H. C. Scovill, City Clk., until 2 p. m., May 7, for the erection of a high school building. J. C. Llewellyn, 1518 First National Bank Bldg., Chicago, is Arch.

JACKSONVILLE, ILL.—Coleman & Pierson, Archs., are preparing plans and will receive bids about May 10 for a school building for the Illinois Women's College. Pressed brick and stone, gravel and tin roofing, sheet and wire skylight glass, combination light fixtures, iron and steel work, I-beams, roof trusses, water closet fixtures, etc. The estimated cost is $50,000.

EDWARDSVILLE, ILL.—The contract for the new Ford County court-house has been awarded by the Board of Supervisors to JAHR & COPE, of Champaign, at $55,000.

CHICAGO, ILL.—The following bids have been received by William McLaren, Supt. Pub. Service, for the marble, mosaic and tile work for the new Cook County Court-House: C. N. Marthins, $379,450; Peoria Stone & Marble Co., $378,553; Hilgartner Marble Co., $378,500; Jno. Pierce Co., $349,300; Chas. Wege Marble & Tile Co., $358,973.

Bids are asked until April 20 by A. E. Newman, Arch., 3575 North Clark St., for the construction of a flat building, to be erected at Farragut Ave. and Clark St., for C. J. Gallagher, 485 West Erie St. To be three stories, 44 × 88 ft., built of brick and stone.

Henry L. Ottenheimer, Arch., 134 Monroe St., is taking figures on a warehouse, to be erected on Peoria St., for Edward Katzinger Co., 161 West Washington St. To be five stories, 50 × 120 ft. Estimated cost, $60,000.

BARABOO, WIS.—Van Ryn & De Gelleke, Archs., of Milwaukee, have prepared plans for the Baraboo high school, to cost $75,000. It will be of stone, brick, and concrete construction, 160 × 128 ft., and three stories high.

MONROE, WIS.—The contract for erecting the high school building was let to S. L. WAGNER, of Monroe, at $36,630. J. L. Sherron is Secy. Bd. of Education. Claude & Starck, Madison, Wis., are Archs.

ST. PAUL, MINN.—Buechner & Orth, Archs., 601 Manhattan Bldg., let the contract for remodeling the three-story pressed brick building at 440 Jackson St. for Geo. Benz & Son to F. J. ROMER & SON, at $35,000.

The engineering department of the Great Northern Ry., A. H. Hogeland, City Ch. Engr., is preparing plans for a five-story annex on Third and Rosabel Sts. It will be of pressed brick and cut stone, fireproof. Estimated cost is $50,000.

The School Board has let the contract for the erection of a three-story pressed brick and cut stone high school building to CHRISTOPHER ASH, of St. Paul, at $45,000.

COLBY, KAN.—Bids are asked by the Bd. of Comrs. of Thomas County, at office of Chas. L. Quick, County Clk., until noon, May 1, for the erection of a court-house. J. C. Holland & Squires, Topeka, are Archs.

MINDEN, NEB.—Contract for the construction of the Kearney County court-house has been awarded to SHALL & ASSENMAKER, of Seneca, Kan., at $78,000.

YANKTON, S. DAK.—Contracts for the Yankton jail have been awarded as follows: Building, AUGUST GOETZ, $7,590; cell work, PAULLY JAIL CO., St. Louis, $3,170.

DALLAS, TEX.—The contract for the erection of Holy Trinity College in Oak Lawn has been awarded to the STEVENSON-KENYON CONSTRUCTION CO., at $200,000. H. A. Overbeck is the Arch. and Daniel Foley, Supt.

LOS ANGELES, CAL.—Morgan & Walls, Archs., 232 North Main St., have plans prepared for the erection of a six-story business building, 60 × 165, which will be built for the Bumiller Estate at 430 South Broadway, at a cost of $125,000.

Parkinson & Bergstrom, Archs., Braley Block, have awarded the contract for a seven-story steel and brick building at Seventh St. and Broadway, to PAUL HAUGHT, at about $250,000.

Otto H. Neher and C. F. Skilling, Archs., Byrne Bldg., have completed plans for a reinforced concrete hotel to be erected on Olive St., between Third and Fourth Sts., for E. R. Brainerd.

BERKELEY, CAL.—The School Board has awarded the contract for the new $50,000 school building on Bancroft St. to the following firms: STOCKHOLM & ALLYN, carpentry, $24,000; CHILDS & ARLETT, masonry, $18,100; W. MORGAN & CO., heating plant, $6,500.

STOCKTON, CAL.—Plans have been received by the Elk's Hall Association for the erection of a new building at Weber Ave. and Sutter St. to cost $100,000. David Salfield, 339 Kearney St., is Arch.

SAN FRANCISCO, CAL.—Bids are asked until 3 p. m., May 22, for vacuum cleaning system complete for post-office and court-house building. James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C. (Advertised, Engineering News.)

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

HOLYOKE, MASS.—We are officially advised that the Board of Water Commissioners intend to install about 60 6-in. two-way hydrants this season, and will also lay about 6,500 ft. of 12-in. main pipe. A. E. Pickup, Registrar Bd. Water Comrs.

AUBURN, N. Y.—We are officially advised that the following bids were received for laying 36-in. intake pipe here: H. P. Burkhard & Co., Buffalo, N. Y., $8,400, 90 days; H. J. Lawler, $19,400, 90 days; A. Q. Thatcher & Co., Toledo, O., $20,450, 100 days; J. C. Dayton, Auburn, N. Y., $19,680, 150 days. John F. Skinner, 23 Cornell St., Rochester, N. Y., is Consult. Engr.

NEW YORK, N. Y.—The following bids have been received by William B. Ellison, Comr. Dept. of Water Supply, Gas and Electricity, for contracts to lay mains in the city: For furnishing, delivering and laying water mains in Jerome and Davidson Aves., 190th St.: John C. Rogers, 1909 Amsterdam Ave., $783,016; John Cornwell, Jr., 69 East 127th St., $821,800; Gallo & Pitelli, 127 Mulbury St., $753,151; Clinton Beckwith, 49 West 27th St., $810,482; Norton & Dalton Contracting Co., $774,992; Atlantic Cont. Co., 432 East 91st St., $875,541.

For furnishing, delivering and laying water mains in Crotona, Prospect and Jackson Aves., 163d St. and Crotona Park South: M. O'Brien, 510 East 119th St., informal; Gallo & Pitelli, $117,929; L. D. Gregory, 125th St.

and First Ave., $129,551; C. Beckwith, $124,-315; P. Goodman, 1068 Park Ave., $143,001; Norton & Dalton Contracting Co., $123,946; Atlanta Cont. Co., $130,253.

For furnishing, delivering and laying 48-in. water mains in Seventh Ave., between 115th and 153d Sts.: Gallo & Pittelli, $312,-537; Thomas Crimmins Contracting Co., 69th St. and Av. A., $360,867; Norton & Dalton Contracting Co., $321,761; C. Beckwith, $358,757; John C. Rogers, $347,857; L. D. Gregory, $334,254; Atlanta Cont. Co., $367,-577; John Cornwell, Jr., $369,150; Culgin-Pace Contracting Co., 787 Tremont Ave., $352,932.

PLEASANTVILLE, N. Y.—Bids are asked until 8 p. m., April 30, by Board of Water Commissioners, for installing pumping machinery at the pumping station. W. S. Moore, Clk. Bd. Water Com. (Advertised, Engineering News.)

FRANKLIN, VA.—Contract to build the water and sewerage system here has been let to the SOUTHERN CONTRACTING CO., of Norfolk, Va., at $34,019. Charles S. York, 1526 East Biddle St., Baltimore, is Consult. Engr.

CREWE, VA.—See under Sewers.

CHARLESTOWN, W. VA.—A company with a capital of $50,000, under the name of the Charlestown Water Co., has been incorporated by R. G. Cox and others, for the purpose of supplying water to Charlestown.

PETERSBURG, FLA.—Bids will be asked for the construction of water-works and sewers. Bonds for $75,000 will be issued.

HATTIESBURG, MISS.—We are officially advised that bids were received on April 10, by the Mayor and Board of Aldermen, for construction of a water-works extension, sanitary and storm sewers, street paving and curbing, and seven concrete abutments. C. W. Rich, Mayor; Richard C. Huston, City Engr. The lowest bids were as follows: Pavement: Barber Asphalt & Paving Co., New Orleans, La., $106,425, if asphalt is accepted; SOUTHERN BITULITHIC CO., Nashville, Tenn., $106,144 (contract awarded for paving residence streets), for bitulithic; SOUTHERN PAVING & CONSTRUCTION CO., Chattanooga, Tenn., $105,218 (contract awarded for business streets).

Water-works extension—For removing: Orleans Engineering Co., New Orleans, La., $911; for laying: West Construction Co., Chattanooga, Tenn., $6,860; for furnishing and delivering on work: Orleans Engineering Co., $340. The contract for the entire water-works extensions was given to E. J. O'BIERNE, Atlanta, Ga., total, $22,936.

Sewers—For storm sewers: W. C. Porter, Laurel, Miss., $10,618; for sanitary sewers: Crockett Paving Co., Birmingham, Ala., $500. Contract for both sewers was awarded to E. J. O'BIERNE, Atlanta, Ga., total, $5,254.

Abutments—Contract was awarded to the lowest bidder, JOHN BIGLEY, Birmingham, Ala., at $4,235.

CINCINNATI, O.—Plans for the new Western Hill pumping station have been filed with the building inspector. The building will have a frontage of 98 ft. on Queen City Ave., and will cost about $46,200. Augustus Herrman is Pres. W.-W. Comrs.

CLEVELAND, O.—Two 2,000,000-gallon Holly vertical triple expansion pumping engines for Fairmount Station have been contracted for, at $39,800; also one 200,000-gallon water tower and foundations for same, $12,500. Edward W. Bemis is Supt. W.-W.

SPRINGFIELD, O.—At a meeting of the Board of Public Service, held April 6, the construction of a 6-in. water main extension in Ward St. was ordered.

SOUTH BEND, IND.—We are officially advised that the following contracts have been let in connection with the water-works here: PLATT IRON WORKS, Dayton, O., 2,500,000-gallon power pump, $3,720; DAYTON GLOBE IRON WORKS, three 54-in. turbine water wheels and iron harness, $6,758; HOOVEN, REUTSHLER & CO., Corliss engine, $1,890; A. J. Hammond is City Engr.

JOLIET, ILL.—We are officially advised that the following bids were received for contract to supply a 3,000,000-gallon pumping engine: Allis-Chalmers Co., Milwaukee, Wis., $17,120, complete; Snow Steam Pump Works, $16,450, except foundations; Laidlaw-Dunn-Gordon Co., $15,200. Bids referred to John Beckwith, Supt. W.-W., and H. A. Stevens, City Engr.

WATERLOO, IA.—We are officially informed that the Waterloo Water Co. probably will have its franchise extended, and undertake extensive improvements at once. These improvements include the construction of deep wells, reservoir, river crossing, pumping machinery, chimney, and several miles of 6-in. to 12-in. mains. Bids for a third deep well will be opened May 1. J. E. Sedgwick is Secy. of the Waterloo Water Co.

ELK CITY, KAN.—The issue of $25,000 water-works construction bonds was voted at an election held April 4.

CAMBRIDGE, NEB.—At a recent election here it was decided to install a water-works system at a cost of about $20,000.

CENTRAL CITY, COLO.—Plans are being prepared for improvements to the city water system, costing about $30,000.

NAMPA, CAL.—The following bids have been received by the board of directors of the Nampa-Meridian irrigation district for the construction of the Lake Nampa reservoir: W. P. Carter, $43,840; S. F. Kesl, $20,111; Haines & Co., $26,226; J. M. Bray, $26,442.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

LIVERMORE FALLS, ME.—We are officially advised that about 4¼ miles of various sizes of sewer pipe is to be laid at an estimated cost of $25,000. Edwin Riley is Chn. Com. on Sewers.

NEW YORK, N. Y.—Bids are asked until 11 a. m., April 25, by Bird S. Coler, Pres. Boro. of Brooklyn, for furnishing all labor and materials required for constructing sewers in various streets.

NORWICH, N. Y.—Bids are asked until 4 p. m., May 4, by T. D. Miller, Pres. Bd. Sewer Comrs., for construction of 15,000 ft. 8 to 10-in. sewers. E. F. Musson, Engr. (Advertised, Engineering News.)

SCHENECTADY, N. Y.—Plans for the extension of the sewer system have been completed. George Holtzman is Comr. Pub. Wks.

ATLANTIC CITY, N. J.—See under Streets and Roads.

BALTIMORE, MD.—See under Water Supply.

WASHINGTON, D. C.—Bids are asked until noon, April 30, by Henry B. F. Macfarland, Comr., for furnishing and delivering sluice gates, for the sewage disposal system. (Advertised, Engineering News.)

CREWE, VA.—A new company is being formed to construct and operate a system of sewer, gas and water-works in this town. Walter E. Lexton has been engaged as consulting engineer. Plans and specifications are now being prepared.

THOMASVILLE, GA.—Plans for the extension of a sewer system here will be completed in about 45 days by H. S. Jaudon, of Savannah, Ga.

JACKSONVILLE, FLA.—Bids are asked until May 4 for the construction of sewers here. This is the second advertisement for bids, the contractor in the first case having failed to carry out his agreement.

GADSDEN, ALA.—Bids are asked until noon, April 28, by C. D. Clark, City Clk., for about nine miles of pipe sewers. (Advertised, Engineering News.)

HATTIESBURG, MISS.—See under Water-Works.

NASHVILLE, TENN.—T. V. BARNSFIELD has been awarded a contract to build a 30-in. radiated brick sewer in Main St. W. W. Southgate is City Engr.

LOUISVILLE, KY.—R. L. CLARK has been awarded the contract to construct a sewer in 26th St.

NEWARK, O.—We are officially informed that 2,076 lin. ft. of tile sewer will be laid in Buena Vista St. and 2,524 lin. ft. in Webb St. and Eastern Ave. The date of letting contracts for this work and for furnishing manholes, lampholes and catch-basins is uncertain. C. H. Wells is City Engr.

RAVENNA, O.—We have been officially advised that the sewer construction noted in our issue of April 5 will consist of 13½ miles of 8 to 18-in. pipes. W. H. Linton is Town Engr.

EVANSVILLE, IND.—W. F. Wunderlick, City Clk., will ask for bids, in a short time, for the construction of sewers.

BRAZIL, IND.—The city council has adopted plans and specifications for the construction of 1,200 ft. of 36-in. storm sewer. G. A. Fletcher is City Engr.

STERLING, ILL.—ROUKE & RIDGE have the contract for constructing sewers here.

DECATUR, ILL.—The Board of Local Improvements has passed a resolution for the construction of a sewer in the Seventh Ward, which will cost about $120,000. A. B. Alexander is City Engr.

SHEBOYGAN, WIS.—The construction of the Kentucky Ave. sewer has been authorized.

BURLINGTON, IA.—THE BURLINGTON CONSTRUCTION CO., here, has the contract to build the Stoney Lonesome sewer.

PAOLA, KAN.—The contract for the paving and construction of 9,000 ft. of 10-in. sewer here has been awarded to EDWARD HUFF, of Paola.

SOUTH OMAHA, NEB.—We are officially informed that the city of South Omaha, Neb., will construct a main sewer system at a cost of about $300,000. The engineer has not yet been selected. Thomas Hoctor is Mayor.

DICKINSON, N. DAK.—Plans are being made for sewer and water-works systems here.

PUEBLO, COLO.—Bids are asked by A. E. MacIntosh, City Engr., for the building of an 8-in. sewer through several alleys here.

WAITSBURG, WASH.—At a recent election here the proposition to bond the city for $11,000 for new sewers was carried. J. B. Caldwell is Mayor.

OAKLAND, CAL.—The contract to build a sewer system in the Melrose sanitary district has been let to R. C. MATTINGLY, of San Francisco, at $24,472.

F. C. Turner, City Engr., has filed his report of estimates for the proposed sewerage improvements, the total cost of which is to be about $500,000.

SAN FRANCISCO, CAL.—T. P. Woodward, City Engr., has made statements that plans are being prepared for sewers, to cost $1,244,685.

SAN FRANCISCO, CAL.—The following contracts for sewer building have been let: In Seventh St., FLINN & TREACY, at $29,-902; China Ave., D. C. O'CONNER, at $1,530; Seventh Ave., EUREKA CONSTRUCTION CO., at $28,847. Thos. P. Woodward is City Engr.

BOISE, IDAHO.—A contract was let on April 7 to C. C. STEVENSON, of Boise, for the construction of a lateral sewer here. N. Davenport is City Engr.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

SYRACUSE, N. Y.—The Board of Contract and Supply has awarded the contracts for sprinkling to JUSTIN McKINLEY and JOHN YOUNG.

GREENBURG, PA.—The contract for furnishing a 15-ton crematory has been awarded to the DIXON CREMATORY CO., at about $6,500.

WASHINGTON, D. C.—Bids are asked until noon, May 7, by the Commissioners, 464 Louisiana Ave., for cleaning streets, avenues and alleys in the District of Columbia. (Advertised, Engineering News.)

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

ROCHESTER, N. H.—The contract for macadam road has been awarded to E. F. MOORE, of Burlington, Vt., at $6,956. A. W. Dean is State Engr.

GREENVILLE, N. H.—The contract for macadam road here has been awarded to the TOWN OF GREENVILLE.

NEWTON, N. H.—Bids are asked until April 30 for the construction of gravel road, estimated cost, $1,750. Plans and specifications may be seen at the office of A. W. Dean, State Engr. at Concord, N. H.

EAST KINGSTON, N. H.—Bids are asked until April 30 for the construction of gravel road, estimated cost $1,500. Plans and specifications may be seen at the office of A. W. Dean, State Engr., Concord, N. H.

RYE, N. H.—Bids are asked until 5 p. m., April 30, for the construction of about 7,500 ft. of gravel road. Plans and specifications may be seen at office of A. W. Dean, State Engr., or W. A. Grover, Dover, N. H.

COLCHESTER, CONN.—THE TOWN OF COLCHESTER has been awarded the contract for road building here. There is 1,600 ft. of gravel roadway, 16-in. deep and 20 ft. wide, to be built at $1.75 a lin. ft.

ROCHESTER, N. Y.—The WARREN-QUINLAN ASPHALT CO., of Syracuse, N. Y., has the contract to pave East Ave., at $38,456.

BUFFALO, N. Y.—Bids are asked until 11 a. m., May 1, by the Department of Public Works for repair of asphalt pavements for the fiscal years 1906 and 1907. F. G. Ward is Comr.

BUFFALO, N. Y.—We are officially informed that bids were received on April 5 for repaving Main St. (8,633 sq. yds.) and for paving Hughes Ave. (6,216 sq. yds.) The lowest bidders were as follows: Main St.: With German Rock Co.'s standard asphalt, German Rock A. & C. Co., Ltd., $11,900. With California asphalt: Henry P. Burgard, $16,750. With genuine Trinidad pitch lake asphalt: Barber Asphalt Paving Co., $12,518. On concrete base, with dressed block Medina sand stone: German Rock A. & C. Co., $28,-900. With genuine Trinidad pitch lake asphalt: Barber Asphalt Paving Co., $16,230. Hughes Ave.—On macadam base, with round edge fire clay brick: Frank V. E. Bardol, $14,900. With round edge shale brick: Frank V. E. Bardol, $14,900. On concrete base, with round edge fire clay brick: Frank V. E. Bardol, $14,600. With round edge shale brick: Louis H. Gipp, $13,370. With square edge fire clay brick: Benjamin F. Spire (informal; specifications do not provide for the use of square edge brick), $16,133. With German Rock Co.'s standard asphalt: German Rock A. & C. Co., $12,400. With California asphalt: Henry P. Burgard, $13,675. With genuine Trinidad pitch lake asphalt: Barber Asphalt Paving Co., $12,743. With Trinidad asphalt: Louis H. Gipp, $13,937. Francis G. Ward, Comr., Dept. Public Works.

NEW YORK, N. Y.—The following bids were received April 12 by Louis Haffen, Pres. Boro. of Bronx, for regulating, grading, setting curbstones, etc., from East 167th St. to East 172d St.: Geo. I. Bailey, 1199 Fulton Ave., $34,131; Uvalde Asphalt Paving Co., 1 Broadway, $44,804; P. Maher, 173d St. and Jerome Ave., $37,193; W. F. Murray, 1155 Boston Rd., $45,895; C. W. Collins, Fordham Rd. and Morris Ave., $38,-905; W. J. Flanagan, Yonkers, N. Y., $30,-389; C. Beckwith, 49 West 27th St., $51,166; Charles Schneider, Morris Ave. and 167th St., $33,174; Atlanta Cont. Co., 432 East 91st St., $41,267; D. W. Moran, 563 Burnside Ave., $48,942; Thomas P. Murray, 1821 Jerome Ave., $38,575

The following bids were received by Louis Haffen, Pres. Boro. of Bronx, for repaving, with macadam, Westchester Ave., from Bronx River to Main St.: Westchester: F. N. Smith Contracting Co., 147 East 125th St., $105,996; A. G. Vermilye, 463 West 144th St., $85,152; C. W. Collins, $98,457; John J. Hart Co., 173d St. and Broadway, $87,369; Atlanta Cont. Co., $111,762; George I. Bailey, $94,909; Thomas Crimmins Contracting Co., 69th St. and Ave. A, $117,971.

The following bids were received April 12 by Louis Haffen, Pres. Boro. of Bronx, for the repaving with macadam of Westchester Ave., from Southern Boulevard to the Bronx River: Hannan Construction Co., 10 Arthur St., Williamsburg, N. Y., $14,784; W. T. Murray, $16,632; T. V. Smith Contracting Co., $20,916; A. G. Vermilye, $16,800; C. W. Collins, $17,976; George I. Bailey, $17,976; John J. Hart Co., $19,152; Thomas Crimmins Contracting Co., $25,032; Atlanta Cont. Co., $20,160.

Bids are asked until 11 a. m., April 25, by Bird S. Coler, Pres. Boro. of Brooklyn, for regulating, repaving with asphalt or granite, and constructing sidewalks in various streets.

Bids are asked until 11 a. m., April 24, by Louis F. Haffen, Pres. Boro. of Bronx, for regulating, grading, paving with asphalt blocks, setting curbstones, flagging the sidewalks, laying crosswalks and building approaches on various streets.

Bids will be received until 11 a. m., April 30, by Joseph Bermel, Pres. Boro. of Queens, for regulating, grading, laying sidewalks, etc., on various streets in First Ward.

AUBURN, N. Y.—Bids are asked until 8 p. m., April 24, by the mayor at his office for the paving, relaying and curbing of sidewalk, etc., on Owasco St., from East Genesee St. to city limits. (Advertised, Engineering News.)

SYRACUSE, N. Y.—The Board of Contract and Supply has rejected bids for the building of cement walks, the lowest bid being 11½ cts. per sq. ft., which was considered too high. The Board will readvertise for bids.

ATLANTIC CITY, N. J.—Bids are asked until 4 p. m., April 30, by City Clerk for material for paving and drainage. Plans and specifications may be seen at office of J. W. Hackney, City Engr., Bartlett Bldg. (Advertised, Engineering News.)

CAMDEN, N. J.—Bids are asked until 8 p. m., April 24, by Street Department for paving seven streets here.

EMLENTON, PA.—The State Highway Commissioners have awarded the contract for building a new road, here, to JOHN L. HANNA, of Franklin, at $6,000.

BALTIMORE, MD.—CHARLES L. STOCKHAUSEN has received contracts from Swift & Co. to lay concrete and pavements on the Platt and Howard fronts of his lot.

PORTSMOUTH, VA.—Bids are asked until 8 p. m., April 26, by the Committee for furnishing and setting 4 lin. ft. of granite curbing, and furnishing materials and paving about 9[illegible] sq. yds. on City Engr.

SUFFOLK, VA.—Bids are asked until 7.30 p. m., May 11, by Simon M. Sykes, of Council, for the grading, curbing and paving of about 40,000 sq. yds. of certain streets with different materials. Lee Shaffer is Engr. (Advertised, Engineering News.)

RICHMOND, VA.—THE WASHINGTON ASPHALT BLOCK & TILE CO. has been awarded the contract for paving to be done here.

PHOEBUS, VA.—Bids are asked by the Street Committee for granite and asphalt block, vitrified brick, bitulithic and tar macadam. Girard Chambers, Hampton, Va., is Des. Engr.

BENWOOD, W. VA.—HIGGINS & HIRSCH, of Moundsville, W. Va., have the contract for paving here.

COLUMBUS, GA. — THE SOUTHERN BITULITHIC CO. has received an additional award of 9,000 sq. yds. of bitulithic in this city.

HATTIESBURG, MISS.—See under Water-Works.

PADUCAH, KY.—We are officially advised that surveys are now being made for paving about 20,000 sq. yds. with brick, and that the contract will be let in about six weeks. S. A. Washington is City Engr.

LOUISVILLE, KY.—Bids are asked until April 23 by the Board of Public Works for the construction of eight blocks of asphalt streets and two blocks of vitrified block streets.

FINDLAY, O.—Bids are asked until May 1 by J. C. Edie, City Clk., for paving 26,213 sq. yds. with brick on several streets. J. W. S. Riegle is City Engr.

INDIANAPOLIS, IND.—THE MARION COUNTY CONSTRUCTION CO. has been awarded the contract for repairing the asphalt pavements. Blaine H. Miller is City Engr.

ROCKVILLE, IND.—Bids are asked until May 7 by the Commissioners of Park Co. for the construction of the Swan and Elders gravel roads, including bridging and draining. Henry Grubb is Audr.

MADISON, IND.—Bids are asked until May 8 by the Commissioners of Jefferson County for the construction of 12½ miles of macadam road in Saluda Township. G. F. Crozier is Audr.

VARSAILLES, IND.—Bids are asked until May 8 by the Commissioners of Ripley County for the construction of 12 miles of macadamized road. Estimated cost, $30,000.

Bids are asked until May 8 by Nicholas Volz, County Audr., for the construction of gravel roads in Otter Creek and Johnson townships.

KOKOMO, IND.—Bids are asked until April 30 by the Board of Public Works for improvements on Sycamore, Lafontain, Kentucky and several other streets.

PRINCETON, IND.—Bids are asked until 11 a. m., May 8, by Jonathan W. Phillips, Comr., for the construction of ten macadamized roads with a combined length of 135.82 ft. Harry R. Embree is Audr., Gibson County.

TERRE HAUTE, IND.—The Board of Public Works here has let the contract to ROBERTS & CO. for the paving of South Eighth St.

SOUTH BEND, IND.—Bids are asked until April 28 for construction of 10,000 sq. yds. of asphalt pavement and 21,000 sq. yds. brick pavement. A. J. Hammond is City Engr.

HOLLAND, MICH.—W. W. HATCH & SONS have secured the contract here to lay 15,000 sq. yds. of brick pavement at $31,466.

KALAMAZOO, MICH.—WILLIAMS BROS. have secured the contract for putting down cement sidewalks and gutters throughout the city.

CHICAGO, ILL.—A contract for 14,450 sq. yds. of bitulithic has been awarded to the CHICAGO BITULITHIC CO. for paving Sheridan Road, Lincoln Park.

SUPERIOR, WIS.—We have been officially advised that contract to macadamize North Seventh St. was awarded to E. A. DAHL here. S. M. White is City Engr.

SHEBOYGAN, WIS.—The contract for paving Eighth St. here has been awarded to M. H. McGOVERN CO., of Chicago.

WATERTOWN, WIS.—The following bids were received by the Board of Public Works, April 11, for paving North Fourth and Fourth Sts. with brick and macadam; the foundation to be concrete 6 in. thick, and the curbing Berea sandstone: C. J. Culley, Milwaukee, Wis., $49,036; Harding & Nelson, Racine, Wis., $47,314; Badger Construction Co., Milwaukee, Wis., $47,783; N. Quinn & Son, Madison, Wis., $48,342; J. O. Jones, Racine, Wis., $45,090; J. A. Heinman, Chicago, Ill., $40,985; Dunn, Keith & Co., Marshaltown, Ia., $41,605; E. L. Bartlett, of Watertown, Wis., $40,533. E. L. BARTLETT, of Watertown, was awarded the contract. E. B. Parsons is City Engr.

WINONA, MINN.—Contract for three miles of macadam was let to OTIS ABELL, at $28,000. We are officially advised that about 18,000 sq. yds. of pavement will be laid this season.

OTTUMWA, IA.—Bids are asked until 8 p. m., May 7, by W. H. O'Malley, Chn. St. Com., for paving with vitrified brick several streets.

LEAVENWORTH, KAN.—STANTON & McGUIRE have been awarded contract for the paving of South Fourth St.

CHANUTE, KAN.—Bids are asked until 10 p. m., April 20, by the Tioja Township Road Commission for the construction of a county road.

CHILLICOTHE, MO.—J. E. MEEK, of this city, has been awarded contract for paving Cahoun St.

KANSAS CITY, MO.—The North Kansas City Development Co. has let a contract to build a macadamized road, from Harlem to the river bluff, to HARRINGTON & CONNELLY, a local firm.

EL PASO, TEX.—THE TEXAS BITULITHIC PAVING CO., here, has contract for paving street.

PARIS, TEX.—Contract for paving to be done here has been let to FIKE & MOORE, of Muscogee, Ind. T.

DALLAS, TEX.—Bids are asked until April 23 by H. M. Price, City Engr., for the construction of about 7,500 sq. yds. of vitrified brick pavement here.

SEATTLE, WASH.—THOMAS ALEXANDER has been awarded contract to build ½ mile road at $1,390.

BALLARD, WASH.—THE BARBER ASPHALT CO. has contract for paving here.

SACRAMENTO, CAL.—Bids are asked until April 30 by George N. Randle, City Surv., for removing bituminous wearing surface from K and Second Sts. and resurfacing with asphalt about 13,500 sq. yds.

SAN FRANCISCO, CAL.—The contract for paving Kearny St. has been given to the BARBER ASPHALT CO., at $15,146.

OGDEN, UTAH.—Bids are asked until April 28 by A. F. Parker, City Engr., for all concrete curbs and gutters to be built in 1906, and a concrete conduit about 3,600 ft. long.

TORONTO, ONT.—THE WARREN BITUMINOUS PAVING CO., of Toronto, Ont., has been awarded a contract for 1,878 sq. yds. of bitulithic.

FORT WILLIAM, ONT.—We are officially informed by H. S. Hancock, Jr., City Engr., that it is proposed to put in at once 4,000 ft. of 15-in. tile pipe at an average cut of 14 ft., estimated cost $13,000; also 2,000 ft. of 30-in. concrete sewers at an average cut of 16 ft., estimated cost $15,000. In addition it is the intention to spend about $75,000 this season on outlet and intercepting sewers, principally concrete.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

KEENE, N. H.—The G. A. Gane Shirt Co. has been formed here and will install a factory for the manufacture of shirts. A paper box factory and laundry will form part of the plant. G. A. Gane is Pres.

NEW BRITAIN, CONN.—A two-story addition, 128 × 48 ft., is to be erected by the Stanley Co. at its plant, No. 2 Myrtle St.

BRIDGEPORT, CONN.—The S. W. HUBBEL BUILDING CO. has been awarded the contract for building a two-story addition, 28 × 40 ft., at the shear factory of the Acme Shear Co.

TROY, N. Y.—We are informed that the HUDSON VALLEY CONSTRUCTION CO. has been awarded the contract for building a new rolling mill, 378 × 100 ft., for the Burden Iron Co.

NEW YORK, N. Y.—We are officially advised that the Proctor & Gamble Soap Co., of Ivorydale, O., has plans prepared and is asking bids for the construction of a soap factory at Western Ave. and Shore Road, Staten Island. Six buildings of reinforced concrete and mill construction are to be erected. They will be from one to four stories and of the following dimensions: 100 × 450 ft., 80 × 114 ft., 100 × 658 ft., 60 × 353 ft., 100 × 542 ft. and 50 × 208 ft. W. H. & F. W. Cane, 1904 Park Row Bldg., New York, who will bid on the work, estimate the cost of buildings at over $1,000,000. Elzner & Anderson, of Cincinnati, are Archs., and E. A. Anderson, of Ivorydale, is Engr.

WESTFIELD, N. Y.—We are officially informed that THE DUROLITHIC CO., of North Tonawanda, has been awarded the contract for constructing a factory building, 110 × 320 ft., for the Welch Grape Juice Co. The contract also includes a power plant, 40 × 80 ft., and a connecting tunnel, 8 × 8 ft., 212 ft. long. All exterior walls will be of pressed concrete hollow blocks and interior of reinforced concrete. Iron stairs, elevator, scales, plumbing and steam heating system, boilers, engines, etc., will form part of the equipment.

PHILADELPHIA, PA.—William Steele & Sons Co. have plans for two new bakeries, each 100 × 400 ft., a flour storage building, power plant, stables, offices and several other smaller buildings, to be of brick and concrete construction, for the Freihofer Vienna Baking Co., at 19th, 20th and Clearfield Sts., and Indiana Ave. The plant will, it is said, be the largest of its kind in the world, and cost $500,000.

It is reported that C. J. Matthews will erect at once a five-story addition to the leather manufacturing plant at Bodine and Willow Sts. Building will be 78 × 68 ft., and cost about $30,000.

STEELTON, PA.—R. H. Graupner, it is said, is inviting bids for the construction of a bottling plant to be of brick and steel, fireproof, three stories. New equipment will be installed.

PHILADELPHIA, PA.—It is reported that WM. STEELE & SONS, 16th and Arch Sts., have been awarded the contract for the construction of an 80 × 130 ft. addition to the Williamson Bros. foundry at Aramingo and Cumberland Sts.

READERS' WANTS FOR THOSE IN THE MARKET The readers of ENGINEERING NEWS are constantly in the market for great quantities of machinery, tools and general supplies. While our thousand advertisers are usually able to furnish the material desired, yet there are many things wanted by our readers that are not advertised, although connected with engineering and contracting directly or indirectly. This department (R-W) is for this class of inquiries, and we urge our readers to keep us informed. Enclose five cents in stamps and we write to a number of leading manufacturers without further cost. When writing to our advertisers, who are the leaders in their respective lines, **mention Engineering News.** Have you a copy of our Buyers' Guide? **Engineering News Can Help Buyers.**

BRICKMAKING MACHINERY. — Bainbridge, Ga.—J. W. Jackson, Bainbridge, Ga., informs us that he is in the market for brickmaking machinery.

TRENCHING MACHINERY.—New York, N. Y.—Levi W. Naylor, 220 Broadway, New York, informs us that he desires to rent a trenching machine.

EXCAVATING MACHINERY. — Boston, Mass.—The Andrew D. Fuller Co., 3 Hamilton Place, Boston, Mass., informs us that it has about 25,000 cu. ft. of excavating to do for a group of four buildings. The average cut to basement floor is 8 ft.; the cut for foundation trenches runs from 10 to 20 ft. Probably water will be encountered in part, and the company desires to rent machinery to do this work rather than by the old methods.

TURBINE WHEELS.—Eureka Springs, Ark.—We are in receipt of a letter from G. M. Matthews, Eureka Springs, Ark., in which he states that he desires to correspond with makers of turbine water-wheels.

CATALOGUES FOR REFERENCE LIBRARY.—Morgantown, W. Va.—W. H. Boughton, Professor of Civil Engineering, West Virginia University, Morgantown, W. Va., writes us that he desires copies of trade catalogues for a reference library for the College of Engineering.

STEAM SHOVELS, DINKIES, CARS, ETC.—McKeesport, Pa.—We are informed that the Pennsylvania Construction Co., of McKeesport, Pa., is in the market for steam shovels, 55 to 90 tons, contractors' dinkies, dump cars, elevating graders, and wheeled scrapers.

ENOLA, PA.—J. N. BASTRESS & CO., of Harrisburg, have been awarded the contract for erecting car repair shops here for the Pennsylvania R. R. Co.

YORK, PA.—JACOB SEACHRIST & SON, 249 South Duke St., have the contract for building an addition, three stories, 200 × 50 ft., for the York Silk Manufacturing Co.

BERWICK, PA.—A silk mill to consist of two buildings, one 200 × 50 ft. and the other 100 × 75 ft., will be erected by the Lehighton Silk Mill Co., of Lehighton, Pa.

BALTIMORE, MD.—J. H. WALSH & BRO., 321 Clay St., have been awarded the contract for building a five-story brick building, 52 × 102 ft., for the Summers Printing Co., 17 South Howard St. Edward L. Walsh, 321 Clay St., is Arch.

Contract for the construction of an addition to the shops of Friedwald Bros., 214 North Holliday St., has been awarded to THOS. P. JOHNS, 405 McCulloh St., at about $15,000. C. M. Anderson, 324 North Charles St., is Arch.

ROANOKE, VA.—The Stone Printing Co. has plans prepared and will soon erect a two-story brick and steel building, 120 × 143 ft., and install new equipment. H. H. Huggins, 705 Terry Bldg., is Arch.

GRAHAM, N. C.—The dyeing plant of the Oneida Cotton Mills, which was destroyed by fire, will be rebuilt at a cost of $25,000. Building will be 50 × 160 ft. New machinery is to be installed.

WILSON, N. C.—It is reported that the Ware-Kramer Tobacco Co. will erect a factory, 200 × 200 ft., at Lambert's Point for the manufacture of cigarettes.

SPARTANBURG, S. C.—It is reported that the Drayton Mills have awarded a contract to G. H. CUTTING & CO., of Worcester, Mass., for the erection of a new mill. Capacity of the mills will be increased from 18,864 spindles and 358 looms to 45,000 spindles and 492 looms.

COLUMBIA, S. C.—Plans are being prepared for a two-story, 100 × 200 ft. building, for the Jonesville Cotton Manufacturing Co., in which will be installed 10,000 spindles and 300 looms. The cost of the new plant will be about $175,000.

BELTON, S. C.—The Belton Webbing Co. is being organized by E. D. Rice, Jr., of Belton, to erect a mill for the manufacture of cotton tape, cotton webbing, etc. The equipment will include 2,000 shuttles, weaving apparatus, dyeing machinery, etc.

NEWNAN, GA.—Contract has been awarded to T. C. THOMPSON & BRO., of Birmingham, Ala., for the erection of the new mill building of the Newnan Cotton Mills at Newnan.

NEW ORLEANS, LA.—The Dixie Brewing Co. has increased its capital from $160,000 to $260,000, and will erect a new brewery to be equipped with the most moderate machinery.

A brick and steel factory, five stories, 150 × 195 ft., will be built at a cost of $100,000 for Manion & Co., manufacturers of plumbers' supplies.

It is reported that D. J. Murphy, M. Youngblood and others have incorporated the J. J. Paquette Co., with $50,000 capital, and will build a plant for the manufacture of gas engines, etc.

HOMER, LA.—A planing mill, 80 × 50 ft., together with sheds, boiler-house, etc., will be built here by the Claibourn Lumber Co., Ltd., of Shreveport, La. J. M. Joyce is Vice-Pres. and Gen. Mgr.

BRISTOL, TENN.—A frame and metal planing mill, 100 × 150 ft., will be built by J. A. Wilkinson, at a cost of about $15,000.

LONSDALE, TENN.—The OLIVER SOLLITT CONSTRUCTION CO., of Chicago, has been awarded the contract for constructing additions to the shops of the Southern Ry. Work will include a brick and steel machine shop, 150 × 750 ft.

WASHINGTON, IND.—It is reported that the Hambrick Motor Car Co., of Huntington, W. Va., will move its plant to this city after erecting a factory building, to cost $135,000.

KALAMAZOO, MICH.—Contract has been let by Samuel Rosenbaum, Son & Co., for the building of a six-story factory building, to MOORE McQUIGG. The building will be of brick, 50 × 100 ft.

ST. CHARLES, MO.—The American Car & Foundry Co., Lincoln Trust Bldg., St. Louis, it is reported, will build a steel car plant here at a cost of $250,000. J. G. Lawlor is representative at St. Charles.

MINNEAPOLIS, MINN.—The Northwestern Knitting Co. has decided to build a five-story addition to its plant at No. 213 Lyndale Ave., to cost $100,000.

ST. LOUIS, MO.—We are officially advised that the Wagner Electric Manufacturing Co. of St. Louis have bought a tract of 15 acres just out of the city, and have engaged Dodge & Day, Archs., of Philadelphia, to design buildings and select the necessary equipment. The preliminary layouts have been submitted and the buildings decided upon. Work will be started at once and about one-third of the ground will be covered by buildings before the end of the present year. W. A. Layman is Gen. Mgr.

HANNIBAL, MO.—It is reported that the Roberts, Johnson & Rand Shoe Co., of St. Louis, will build a shoe factory here in the near future.

TRENTON, MO.—The Trenton Ice Co. has been incorporated, capital $30,000, for the purpose of erecting and operating an ice and cold storage plant. H. Wettstein is Pres.

SEATTLE, WASH.—The Northwestern Iron & Steel Co. has been incorporated with $11,000,000 capital. It is the intention of the company to erect a plant to cost $5,000,000 in one of the suburbs of Seattle.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

DREDGING.—Wilmington, Del.—Bids are asked until 11 a. m., April 30, by Capt. C. A. N. Flagler, Engrs., for dredging Mispillion River, Del. (Advertised, Engineering News.)

TUNNEL.—Boston, Mass.—Bids are asked until noon, May 8, for constructing Section Nine of Washington St. tunnel. B. Leighton Beal, Secy. Boston Transit Comn. (Advertised, Engineering News.)

DITCHES.—Crawfordsville, Ind.—Bids are asked until April 28, by James A. Harding, Drainage Comr., for construction of open ditch, 5,947 ft. long, and tile ditch 3,985 ft. long, in Montgomery County.

STREET SIGNS.—Schenectady, N. Y.—We are officially advised that contract for street signs has been awarded to the AMERICAN STREET SIGN CO., Clyde, O. Advertised in Engineering News on March 1st.

STREET SIGNS.—New York, N. Y.—Bids are asked until 11 a. m., April 24, for furnishing 600 standards (each with four enameled signs, complete), and 100 street sign posts. Louis F. Haffen, Pres. Boro. Bronx.

DREDGING. — Detroit, Mich.—Bids are asked until 2 p. m., May 14, by Col. Charles E. L. B. Davis, Engrs., Jones Bldg., Detroit, for dredging Round Island Shoals, St. Marys River, Mich. (Advertised, Engineering News.)

TUNNEL.—Oakland, Cal.—We are officially informed that the E. B. & A. L. STONE CO., of Oakland, Cal., has the contract for building a tunnel located in the central part of California. The length will be about 4,000 ft.

GRAND STAND.—Syracuse, N. Y.—Contracts have been awarded for the new grand stand for the State fair here as follows: Construction, GEORGE SCHATTLE, $44,539; plumbing, CHARLES E. AMES, $2,300, both of this city.

TRAM TRACK AND CARS.—Philadelphia, Pa.—Bids are asked until noon, April 26, for 12,000 ft. 21½-in. gage tram track and four cars. Thomas L. Hicks, Dir. Dept., Public Works, Bureau Filtration, 712 City Hall. (Advertised, Engineering News.)

DREDGING AND FILLING.—San Francisco, Cal.—The North American Dredging Co., of San Francisco, writes us that it is about to start with a filling for the Southern Pacific Ry. at Visitacion Bay. This filling will be done with an electric dredge of 1,200 HP.

STEEL HARBOR BOAT.—St. Louis, Mo.—Bids for the construction of a steel harbor boat have been received by the Board of Public Improvements, as follows: Springfield Boiler Wks., Springfield, Ill., $55,695; Howard Ship Yards, Jeffersonville, Ind., $58,858. The bid of the Dubuque Boiler Wks., $61,000, was irregular, and was rejected.

DAM, ETC.—Ford, Ky.—Frank J. Cullen, of Chicago, was lowest bidder, at $106,965, for building a dam with abutment and protection cribs, a dike, dwelling house, office building, two cisterns and for various repairs at Lock No. 10, Kentucky River, Ford, Ky. Bids were opened April 10 by Maj. J. G. Warren, U. S. Engrs., Cincinnati, O.

DRAINAGE DITCH.—Bristol, Ill.—We are officially advised that the commissioners of Rob Roy Drainage District, Bristol, Kendall County, Ill., have awarded contract for the construction of six miles of drainage ditch to G. A. McWILLIAMS, Walnut, Ill. Estimated cost, $16,000.

SUBWAY.—Auburn, N. Y.—Bids are asked until 8 p. m., April 24, for constructing subway in Owasco St. The approximate quantities of work to be done are as follows: 49,000 lin. duct ft.; 6,000 lin. ft. double manholes; 16 lin. ft. single manholes. Bids will also be received at same date for paving, etc. J. S. Hanlon, City Clk. (Advertised Engineering News.)

CAISSON LOCK-GATES.—Boston, Mass.—Bids are asked by the Charles River Basin Commission, 367 Boylston St., until 2.30 p. m., May 14, for constructing and erecting two steel caisson lock-gates in the lock being built in the Charles River at the site of the proposed dam. William S. Youngman, Secy. Hiram A. Miller, Ch. Engr. (Advertised, Engineering News.)

WHARF.—Charleston, S. C.—We are officially advised that three bids were received on April 14 by the Bureau of Yards and Docks, Navy Dept., for building a pile and timber wharf at the navy yard, as follows: E. HART, 568 East Main St., Norfolk, Va., $2,789 (awarded contract); Simons-Mayrant Co., 16 Broad St., Charleston, $3,945; Bernard Rolf, 39 Cortlandt St., New York, N. Y., $3,833.

DREDGING, ETC.—Brunswick, Ga.—Contracts have been awarded as follows, we are advised, by the Fore River Shipbuilding Co., in connection with the railway terminal project at Brunswick: (1) for dredging and filling from 200,000 to 300,000 cu. yds., to the NORTH AMERICAN DREDGING CO.; (2) for construction of two piers; (3) for construction of sheds on piers, and four storehouses on shore for the Atlantic & Birmingham Ry. terminal, to A. F. CHAPMAN, at about $400,000, as announced last week. We are informed that "this work contains a new feature in Atlantic coast construction, all piling used in piers being of reinforced concrete, molded on land in pieces 50 ft. long, and driven with a hydraulic pump. Construction is to begin at once, and the work is to be completed within a year.

BARGE CANAL.—Albany, N. Y.—Bids are asked by N. V. V. Franchot, Supt. Public Works, for bids for four Barge Canal construction contracts. The number of the contracts, the location, character and estimated cost of the work, and the dates under which bids will be received are as follows: No. 8: For the construction of dams in the Mohawk River at Scotia and at Crane's Village, four miles east of Amsterdam; estimate, $1,746,140; May 8. No. 10: For the excavation of 1.2 miles of and the construction of locks Nos. 2 and 3, on the Oswego Canal, in Fulton; estimate, $1,322,486; May 9. No. 11: For excavating 1.6 miles of the Erie between the Mohawk west of Cohoes, and contract No. 2, in course of execution; estimate, $1,922,092; May 8. No. 12: For the construction of 11.1 miles of canal between Oneida Lake and Three River Point, connecting that lake with the Seneca River; estimate, $6,519,798; May 9.

CIVIL SERVICE EXAMINATIONS

RODMEN—Grade 3—Official Service, Division B, on April 23, at 9 a. m., in room 400, city hall. Also,

ARCHITECTURAL DRAFTSMEN—Grade 4—Official Service, Division B, on April 26, at 9 a. m., in room 400, city hall. William E. Rafferty, Secy.

CHICAGO, ILL.—The Civil Service Commission of Chicago will hold original entrance examinations as follows, as these are special examinations for positions requiring technical knowledge and manual skill of a high order, the applications filed will be governed by Section 3 of Rule 3 (waiver of local residence in special examinations):

HELIOTROPER.—New York, N. Y.—The Municipal Civil Service Commission, 299 Broadway, announces an open competitive examination to be held on May 14, at 10 a. m., for position of heliotroper. The receipt of applications will close on May 3, at 4 p. m. William F. Baker, Pres. (Advertised, Engineering News.)

ENGINEER AND MILLER.—Arizona.—An examination is announced by the U. S. Civil Service Commission to be held on May 16 to fill a vacancy in the position of engineer and miller, at $900 per year, at the San Carlos Agency, Ariz., and vacancies as they may occur in any branch of the service requiring similar qualifications. Form 1,003.

LINOTYPE MACHINIST.—Philippine Service.—The U. S. Civil Service Commission announces an examination on May 16 to fill a vacancy in the position of linotype machinist, at $1,600 per year (to be increased to $1,800 per year at the expiration of probationary period, if services are satisfactory), in the Philippine Service, and vacancies as they may occur in that service requiring similar qualifications. Forms 2 and 1,053.

DRAFTSMAN.—Washington, D. C.—The U. S. Civil Service Commission announces the postponement to May 16 of the examination scheduled for May 2 to fill a vacancy in the position of structural and mechanical draftsman, at $1,320 per year, in the Engineer Department at Large, Wheeling, W. Va., two vacancies in the position of engineer draftsman, at $1,500 to $2,000 per year, in the Reclamation Service, and vacancies as they may occur in any branch of the service requiring similar qualifications. Form 1,312.

NAUTICAL EXPERT.—Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on May 9, to secure eligibles to fill two vacancies in the position of nautical expert in the Hydrographic Office of the Navy Department, one at Washington, D. C., at $1,000 a year, and

the other at Cleveland, O., at $1,200 a year. Age limit, 20 years. Application form 1,312. As the Commission has experienced considerable difficulty in securing eligibles for this position, but two having been obtained as the result of the examination held on Feb. 21, 1906, qualified persons are urged to enter this examination. At the request of the Department, applications will not be accepted from persons who have not attended for at least two years a nautical school of no less a grade than the schools maintained upon the schoolships of the States of Massachusetts, New York and Pennsylvania, or who have not served for at least three years on board vessels navigating either the Great Lakes or the ocean.

INDUSTRIAL NOTES.

THE TAYLOR IRON & STEEL CO. announces that it has moved its New York offices from No. 1 to 100 Broadway.

THE AMERICAN DIESEL ENGINE CO., 11 Broadway, New York, has officially reported the sale of 14 Diesel engines, aggregating over 3,000 HP.

ANDERSON & SCHEFLOW, Elgin, Ill., inform us that they have formed a partnership for the practice of civil engineering. They desire circulars and catalogues from companies manufacturing supplies and materials.

THE PITTSBURG PIPING & EQUIPMENT CO. informs us that it has removed its general offices from the Westinghouse Bldg. to its own building at 3422 Smallman St., Pittsburg, Pa. Similar changes have been made at the Cleveland branch from the Rose Bldg. to 53 Public Square.

THE ENTERPRISE BOILER COMPANY'S plant, Youngstown, O., was completely destoryed by fire March 25. The destruction of the shops will suspend operations on new work at present. Probably 25% of the $85,000 worth of orders now on the books will be finished by special arrangement with portable machinery. It is the intention of the company to rebuild and resume operations with facilities for handling the same class of work.

THE HARPER MACHINERY CO., Park Row Bldg., N. Y., is moving from its yards and shops at Newark, to Bloomfield, N. J., where it has purchased three acres of ground on the line of the D., L. & W. R. R., within about two minutes' walk of the depot, where it is about to erect permanent buildings. It will be in a position, in the early spring, to receive for storage at reasonable rates, for parties in New York and vicinity, material such as engines, pumps, boilers and other machinery that they may have on hand.

THE PELTON WATER-WHEEL CO., of San Francisco, Cal., has received an order from the Orient for a complete equipment to operate under two separate heads, conditions being such that two independent streams afford heads of 630 ft. and 420 ft respectively with varying water quantities. This involves two wheels of different diameters mounted on the same shaft, which is direct-connected to an electric generator by means of Pelton flexible leather link couplings. A single governor controls both wheels by means of stream deflecting hoods on the nozzles. Also from the Orient comes an order for an iron mounted Pelton unit for driving a 300-KW. generator under an effective head of 580 ft., the wheel to have 500 HP. maximum capacity.

THE COFFIN VALVE CO., Boston, reports the following contracts recently secured for the Niagara Falls Hydraulic Power & Mfg. Co.: 13 circular sluice gates, 9 ft. in diameter; two 5-ft sluice gates, all operated by individual 20-HP. motors. Also from the Milford Power Co., of Milford, Me., an order for 13 sets of electrically-controlled hoisting mechanism for large gates 14 ft. square. From the Great Northern Power Co., Duluth, Minn., contract for several rectangular sluice gates 7 x 9 ft. and 8 x 9 ft. in size. These to be operated by hand under considerable head by ball bearing two-speed device. This company reports having made great progress in the design and construction of electrical operating valves during the past year, and has at present the process of construction for orders in hand over 100 electrically operated valves for different installations.

THE WESTINGHOUSE MACHINE COMPANY, of East Pittsburg, Pa., during the months of February and March, received orders for 35 steam turbines, aggregating approximately 50,000 brake HP. capacity. The most important equipments were those ordered by the Transit Development Co., Brooklyn, 7,500-KW.; Toledo Gas & Electric Co., 3,000-KW.; Los Angeles Pacific Railway Co., 2,750-KW.; Detroit United Railways, 1,200-KW.; Columbia (S. C.) Electric Street Railway Co., 3,000-KW.; St. Paul Gas Light Co., 1,500-KW.; Grand Trunk R. R. Co., for St. Clair Tunnel, 3,000-KW.; Detroit, Monroe & T. S. L. Ry., 1,200-KW.; Northern Heating and Electric Co., St. Paul, 1,000-KW., and Griffin Wheel Co., Chicago, 1,000-KW.

THE LIMA LOCOMOTIVE & MACHINE CO., of Lima, O., reports the following sales for the week ending April 14: Cooke-Day Lumber Co., New Orleans, La., 20-ton; Pacific Lumber Co., San Francisco, Cal., 55-ton; American Lumber Co., Mobile, Ala., 65-ton; Copp Lumber Co., Shabuta, Miss., 28-ton; Raleigh & Southport Railway Co., Raleigh, N. C., 17 x 20 consol.; The McGowan Co., Shivers, Miss., 20-ton; Blind River Transportation Co., Blind River, Ont., 28-ton.

We have to announce the formation of the PFANNMUELLER ENGINEERING COMPANY, incorporated to do a general engineering and contracting business. The officers are: F. E. Pfannmueller, Pres.; S. D. Boynton, M. E., Vice-Pres. and Consulting Engineer, and E. M. Mills, Secy. and Treas. The company will make a specialty of designing and installing complete power plants. The principal offices will be 1134 First National Bank Bldg., Chicago, Ill.

For other Proposal Advertisements see pages 43, 44, 45, 46, 47, 48, of Advertisements and Construction News page 146.

ASPHALT PAVING, SUBWAY, ETC.

Auburn, N. Y.

Sealed proposals will be received by the Mayor at his office until 8 o'clock p. m., Tuesday, April 24, 1906, for the work of paving, curbing, relaying sidewalk, etc., on Owasco Street, from the south line of East Genesee Street to the city limits.

The approximate quantities of work to be done are as follows:

Asphalt paving	10,500 sq. yds.
Brick paving in car tracks	3,000 sq. yds.
Curbing	7,500 lin. ft.
Catch basins	20
Sidewalk to be relaid	30,000 sq. ft.
Headers	460 lin. ft.

Sealed proposals will also be received on the same date for constructing subway in Owasco Street.

The approximate quantities of work to be done are as follows:

Ducts	49,000 lin. duct ft.
3-in. iron distribution pipe	6,000 lin. ft.
Double manholes	16
Single manholes	2
Sewer for 12 manholes.	

Sealed proposals will also be received on the same date for the laying of such pavement and the construction of such subway under one contract in the approximate quantities as stated above.

Instructions to bidders, together with specifications and form for contract and bond, can be obtained upon application.

The right is reserved to reject any and all bids.

By order of the Common Council.

J. S. HANLON,
16-1t City Clerk.

WATER-WORKS.

Perrysburg, O.

Sealed proposals, properly endorsed on the envelope, will be received by the Board of Trustees of Public Affairs of the Village of Perrysburg, Ohio, until 12 o'clock noon of Monday, May 7th, 1906, and then publicly opened and read by the clerk of said Board for furnishing all tools, equipment and labor necessary to do all the trenching, pipe laying, and backfilling for the proposed waterworks for the said village of Perrysburg, Ohio.

Plans and specifications can be seen, and form of proposal obtained at the offices of the clerk of said Board in Perrysburg, Ohio, or of the engineers, The Riggs & Sherman Company, 613 The Nasby Building, Toledo, Ohio.

The Board reserves the right to reject any or all bids.

R. R. HARTSHORN, Clerk.
Perrysburg, Ohio, April 9th, 1906. 16-1t

Department of Public Works.
Bureau of Filtration.
Office, 712 City Hall,
Philadelphia, April 12, 1906.

Sealed proposals, endorsed "Bids for tram track and cars," and addressed to the undersigned, at the office above mentioned, will be received until 12 o'clock, noon, on Thursday, April 26, 1906, for 12,000 feet 21½-inch gage tram track, and 4 cars.

Specifications and blank forms upon which bids must be made can be obtained upon application at Room 712 City Hall.

No bid will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81, West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city.

THOMAS L. HICKS,
16-1t Director.

DEPARTMENT OF THE INTERIOR, Washington, D. C., April 11, 1906.—Sealed proposals will be received at the office of the United States Reclamation Service, Belle Fourche, South Dakota, until 4 o'clock p. m., May 15, 1906, for the construction of five highway bridges. Particulars may be obtained from the Chief Engineer of the Reclamation Service, Washington, D. C., or from R. F. Walter, Engineer in Charge, Belle Fourche, S. Dakota. E. A. HITCHCOCK, Secretary. 16-4t

OFFICE OF THE COMMISSIONERS, D. C., Washington, D. C., April 9, 1906.—Sealed proposals will be received at this office until 12 o'clock, noon, April 30, 1906, for furnishing and delivering sluice gates for the sewage disposal system, D. C., f. o. b., Washington, D. C. Specifications and forms of proposal may be obtained at this office. HENRY B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 16-2t

NEW COURT HOUSE AND HALL OF RECORDS.

White Plains, Westchester County, New York

Sealed bids or estimates will be received by the Committee on New Court House of the Board of Supervisors of Westchester County, until 11 o'clock a. m., on May 14, 1906, for the erection of a new Supreme Court Building, and an addition to the present Hall of Records, on the Westchester County Court House grounds, at White Plains, New York. The said bids will be opened in the rooms of the Board of Supervisors on said 14th day of May, 1906. Bids must be in sealed envelopes, addressed to Chauncey T. Secor, Chairman, and marked on the outside, "Proposals for New Buildings." Each bid must be accompanied by a certified check for ten thousand ($10,000) dollars payable to Chauncey T. Secor, Chairman of the Board of Supervisors.

The successful bidder will be required to give a bond, and comply with other conditions in the contract, form of which, with plans and specifications, may be seen at the office of the Board of Supervisors, White Plains, N. Y., and at the office of the Architects, Messrs. Lord and Hewlett, 16 East Twenty-third street, New York City.

The bidder must deposit with the architect, not later than May 12, 1906, samples (in six-inch cubes) of the stone on which his bid is based. A portion of these samples will be subject to such tests as the architect shall deem necessary, and the remainder be retained as samples of the material to be furnished. Any stone which does not stand the test satisfactorily will be rejected, and no bid contemplating the use of rejected stone shall be considered. The quality of the stone furnished must conform to the samples presented by the bidder, and kept in the office of the architect.

No bid will be received or considered, unless deposit of samples referred to above are made within the time prescribed, nor unless they conform to the requirements of the specifications and are approved by the architects.

PLUMBING.

Sealed proposals will also be received at the same time and place for plumbing the above buildings. Proposals, contract, plans and specifications for which may be seen as above.

Proposals must be addressed to Chauncey T. Secor, Chairman, marked "Proposals for Plumbing," and accompanied with a certified check for five per cent. of the total amount of such bid.

HEATING AND VENTILATING.

Sealed proposals will also be received at the same time and place, for heating and ventilating the above buildings. Proposals, contract, plans and specifications for which may be seen as above.

Proposals must be addressed to Chauncey T. Secor, Chairman, and marked "Proposals for Heating and Ventilating," and accompanied with a certified check for five per cent. of the amount of such bid.

ELECTRIC WIRING.

Sealed proposals will also be received at the same time and place, for electric wiring, for above buildings. Proposals, contract, plans and specifications for which may be seen as above.

Proposals must be addressed to Chauncey T. Secor, Chairman, and marked "Proposals for Electric Wiring," and accompanied by a certified check for five per cent. of the total amount of such bid.

The committee reserves the right to reject any or all bids.

Dated White Plains, N. Y., April 16, 1906.
16-4t CHAUNCEY T. SECOR,
Chairman of Committee on New Court House.

PIPE SEWERS.

Norwich, N. Y.

Sealed bids will be received by the Board of Sewer Commissioners of the Village of Norwich, N. Y., at the office of H. D. Newton, Friday, May 4, 1906, at 4 o'clock, P. M., for the construction of about 15,000 ft. of 8 and 10-in. sewers and appurtenances.

All bids must be accompanied by a certified check for $500.00 payable to the order of The Board of Sewer Commissioners of the Village of Norwich, N. Y.

A bond in the sum of $5,000.00 will be required of the successful bidder.

The right to reject any and all bids is reserved.

Plans and profiles may be seen and specifications obtained at the office of E. F. Musson, 12 Sheldon St., Norwich, N. Y. Copies of profiles may be obtained for 25c.

T. D. MILLER,
President Board of Sewer Commissioners.
WILLIAM MASON, Secretary.
E. F. MUSSON, Engineer. 16-2t

ELECTRIC LIGHT PLANT AND WATER-WORKS.

Borough of Hi[illegible]ds, N. J.

Sealed proposals for furn[illegible] the material and performing the [illegible] required in the erection of a Municipal El[illegible] Light and Water Plant will be receive[illegible] the Mayor and Council of the Borough [illegible] Highlands, N. J., at a meeting to be he[illegible] Firemen's Hall, on Monday, April 23d.

The Council will be in se[illegible] to receive bids from 8 to 8.30 o'clock [illegible] evening. Bids will be opened promptly at 8.30 o'clock.

Proposals properly endorsed [illegible] be presented personally, and at no [illegible] time or place, and must be made out [illegible] accordance with the form accompanying [illegible] specification.

General proposals covering the entire work are required. No proposals for portions of the work will be entertained.

The work includes: (1) Power House and Foundation; (2) Stand Pipe; (3) Pipe Line; (4) Turbine Pump; (5) Air Compressor; (6) Driven Wells; (7) Steam Plant; (8) Engine; (9) Generator; (10) Switchboard; (11) Transformers; (12) Wiring; (13) Pole Line and Fixtures.

Plans and specifications may be had at the office of the engineers, Runyon & Carey, 122 Market St., Newark, N. J.

The right is reserved to reject any or all bids.

TUNIS H. LANE,
16-1t Borough Clerk.

PUMPING MACHINERY.

Pleasantville, N. Y.

Sealed proposals will be received by the Board of Water Commissioners of the Village of Pleasantville, N. Y., at the Village rooms in said Village, until eight o'clock, P. M., on the 30th day of April, 1906, when they will be opened.

For installing a second unit of pumping machinery at the Village Water Works pumping station, consisting of gasoline engine, water pump, air compressor, foundations under same, together with all pipe lines, water and air, and all other work necessary to enable the said installation to perform the functions and do the service required to operate the Acme System of Water Storage.

Blank forms of proposals and other necessary papers can be obtained on application at the office of the Village Clerk or at the office of Byrne & Darling, Engineers in charge, White Plains, N. Y.

By Order of the Board of Water Com.
16-2t W. S. MOORE, Clerk.

Municipal Civil Service Commission,
280 Broadway,
New York, April 18, 1906.

Public notice is hereby given that an open competitive examination will be held for the position of Heliotroper on Monday, May 14, 1906, at 10 A. M. The receipt of applications will close on Thursday, May 3, at 4 P. M.

For scope of examination and further information, apply to the Secretary.

WILLIAM F. BAKER, President;
R. ROSS APPLETON,
ALFRED J. TALLEY,
Civil Service Commissioners.
FRANK A. SPENCER,
Secretary. 16-1t

SEWERS.

Sealed proposals will be received by the undersigned until twelve o'clock noon, Saturday, April 28th, 1906, for constructing about nine (9) miles of pipe sewers. Specifications may be obtained from the undersigned. The right is reserved to reject any or all bids.

Signed, C. D. CLARK, City Clerk,
16-1t Gadsden, Alabama.

NOTICE TO CONTRACTORS.—Sealed bids for constructing Section 9 of the Washington St. Tunnel, from Hanover St. to Haymarket Square, a distance of about 460 ft., will be received by the undersigned at 15 Beacon St., Boston, Mass., until 12 o'clock M., Tuesday, May 8, 1906. The structure will be mainly of concrete and steel, will include a station with two platforms, and will be for two railway tracks. Plans can be seen and specifications and forms of contract can be obtained at 15 Beacon St., 9th floor. The right to reject any and all bids, and to award the contract as is deemed to be for the best interest of the City of Boston is reserved. By order of the BOSTON TRANSIT COMMISSION, B. LEIGHTON BEAL, Secretary. 16-3t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., April 17, 1906.—Sealed proposals will be received at this office until 3 o'clock, P. M., on the 22d day of May, 1906, and then opened, for the vacuum cleaning system complete in place for the U. S. Post Office and Court-house building at San Francisco, Cal., in accordance with drawing and specification, copies of which may be had at this office, or at the office of the Custodian, at San Francisco, Cal., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 16-2t

WATER WORKS EQUIPMENT.

City Clerk's Office, East Orange, N. J.

Sealed proposals will be received by the City Council of East Orange, at their Council Room in the City Hall, on Main Street, on the 23d day of April, 1906, at eight o'clock P. M. for the following materials and labor at the White Oak Ridge Pumping Station:

Laying 2,450 feet of 24-inch cast-iron pipe, 2,490 feet of 20-inch cast-iron pipe, and 300 feet of 12-inch cast-iron pipe.

Building an overflow chamber and manhole, and setting blow-off.

Connecting up driven wells and building substation building.

Proposals must be endorsed "Proposal for Laying Cast-Iron Pipe and Connecting Wells."

Specifications and plans may be seen at the office of C. C. Vermeule, Engineer in Charge, 26 Broadway, New York, or at the office of the Water Department, City Hall, East Orange, New Jersey.

Proposals must be addressed to Edgar Williams, City Clerk, and delivered to him not later than 8 o'clock P. M., on April 23d, 1906.

The City Council reserves the right to accept or reject any or all bids.

EDGAR WILLIAMS,
City Clerk.

Dated April 10th, 1906. 15-2t

DRAINING.

Sealed proposals, suitably endorsed on envelope, for draining the lowlands lying in the Boroughs of Bergenfield and Dumont, Bergen County, N. J., will be received at the office of Walter Christie, Treasurer of the Dumont Drainage Commission, by the undersigned Commission at its meeting to be held at said office, April 28, 1906, at 4 o'clock, P. M. No bids will be received after the aforesaid time.

Plans, specifications and forms of bid may be seen at the office of Watson G. Clark, C. E., No. 1125 Broadway, N. Y. C., and Hillside Ave., Tenafly, N. J., or at the office of Walter Christie, Bergenfield, N. J., on and after April 13, 1906.

All bids to be opened and the contents publicly announced at the office of Walter Christie, Bergenfield, N. J., at above-mentioned time.

All bids must be accompanied by a certified check to the amount of ($50.00), payable to the order of the Dumont Drainage Commission.

A bond will be required from the successful bidder for the faithful performance of the contract.

The Commission reserve the right to reject any or all bids.

RICHARD D. VAN BUSKIRK.
WALTER CHRISTIE.
WATSON G. CLARK.
Commissioners.

15-2t

HEAD HOUSE, CHEMICAL HOUSE, ETC.

Sealed proposals will be received at the office of Board of Trustees, "Commissioners of Water-Works," of the City of Cincinnati, Ohio, until twelve o'clock noon of Tuesday, May 8, 1906, for the construction of a Head House, Chemical House, Filter House, Valve Houses and of a wash Water Reservoir and other miscellaneous work in connection therewith, for the Filter Plant and Settling Reservoirs, near the Village of California, in Hamilton County, Ohio.

Plans and detail drawings of the work and copies of the specifications, estimated quantities of the work to be done, form of proposal, forms of bonds and form of contract can be secured at the office of the Chief Engineer of the Board of Trustees, "Commissioners of Water-Works.

Each bid shall be accompanied with a bond, certified check, bank certificate of deposit or cash in the sum of $7,500 for the acceptance of the contract, if awarded by the Board of Trustees, "Commissioners of Water-Works."

Bidders must furnish satisfactory evidence of their ability to do the class of work required.

AUG. HERRMANN,
President.

ELMER G. PRIOR,
Clerk. 15-3t

U. S. ENGINEER OFFICE, Jones Building, Detroit, Mich., April 14, 1906.—Sealed proposals for dredging Round Island Shoals, St. Marys River, Mich., will be received at this office until 2 p. m., May 14, 1906, and then publicly opened. Information furnished on application. CHAS. E. L. B. DAVIS, Col., Engrs. 16-4t

PUMPING ENGINE.

Bowling Green, Ky., April 3, 1906.

Sealed proposals will be received by the Board of Public Works and Common Council of the City of Bowling Green, Kentucky, until two o'clock, P. M., on Thursday, April 26th, 1906, for furnishing and installing complete with foundations and connections one Three Million gallon Pumping Engine of from 90 to 120 million duty.

Proposals may be made on Crank and Fly-Wheel, Direct-acting, or Compensated types of machine, with either compound or triple expansion steam cylinders. Machine must be of vertical type.

A certified check for $1,000.00, payable to City of Bowling Green, Ky., deposited with Wm. Carr, Treasurer, will be required with each proposal.

Specifications may be obtained by addressing the Consulting Engineer, Granberry Jackson, C. E., Nashville, Tenn., or the City Engineer, E. P. Harris, Bowling Green, Ky. The right is reserved to accept or reject any or all bids.

GEO. T. WILSON, Mayor.
14-3t W. H. PHILIPS, City Clerk.

PAVING.

Champaign, Ill.

Bids are asked until two o'clock P. M., April 24, by Board of Local Improvements for paving State Street, 11,670 square yards brick pavement, 8,100 lineal feet concrete curb and gutter. Plans and specifications can be had from G. C. FAIRCLO, City Engineer. 16-1t

STREET PAVING.

Portsmouth, Virginia, April 3d, 1906.

Sealed proposals will be received at the office of City Clerk, Portsmouth, Va., addressed to "Street Committee," until 4 P. M., May 7th, 1906, for furnishing and setting forty-one hundred (4100') lineal feet, more or less, of five-inch granite curbing, and furnishing materials and paving ninety-nine hundred (9900) square yards, more or less, of the following kinds of pavements: Sheet Asphalt, Vitrified Bricks, Asphalt Blocks and Bituminous Macadam, or Bitulithic, on Lincoln Street, between First and Fourth Streets, and on North Street, between Court and Green Streets.

Blank forms and instructions to bidders, together with specifications for the work, can be obtained upon application at the office of City Engineer.

The right is reserved to reject any and all bids.

E. B. HAWKS,
SAM'L T. MONTAGUE,
Chairmen Street Committee.
BASCOM SYKES,
City Engineer. 15-2t

Department of Public Works.
Bureau of Filtration.
Office, 710 City Hall.
Philadelphia, March 19, 1906.

Sealed proposals, endorsed "Bids for Pumping Engines, Boilers, etc.," and addressed to the undersigned, at the office above mentioned, will be received until 12 o'clock, noon, on April 26, 1906, for Pumping Engines, Centrifugal Pumps, Boilers, etc., for Torresdale Filters.

Specifications and blank forms upon which bids must be made can be obtained upon application at Room 712 City Hall.

No bid will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81 West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city.

THOMAS L. HICKS,
12-2t 16-1t Director.

Specifications are on file at the offices of Engineering News in New York, Chicago and Washington.

U. S. ENGINEER OFFICE, 504 Federal Bldg., Chicago, Ill., April 2, 1906.—Sealed proposals for excavating the outlet from Lock 29 into Rock River, building crib revetments and backfilling around them, will be received here until noon, May 2, 1906, and then publicly opened. Information on application here, or to Assistant Engineer L. L. Wheeler, Sterling, Ill. W. H. BIXBY, Lt. Col., Engrs. 14-4t

U. S. ENGINEER OFFICE, Army Building, New York, April 10, 1906.—Sealed proposals for furnishing and delivering round timber and piling; square timber and lumber; and tie rods, bolts, spikes, etc., for constructing and repairing dikes in Hudson River will be received at this office until 12 M., May 10, 1906, and then publicly opened. Proposals are invited separately for each class of material. Information furnished on application. W. R. LIVERMORE, Col., Engrs. 15-4t

GRADING, PAVING, CURBING, ETC.

Office of the Board of Public Improvement.
Suffolk, Va., April 11th, 1906.

Sealed proposals will be received until 7.30 P. M. of May 11th, 1906, for furnishing all materials and labor necessary for the grading, curbing and paving of certain streets in the town of Suffolk, approximating 40,000 square yards.

Propositions will be received in accordance with blank forms furnished by the Engineer, and the following materials will be considered:

Vitrified Paving Block on Concrete Foundation.
Asphalt Block on Concrete Foundation.
Bitulithic on Concrete Foundation.
Sheet Asphalt on Concrete Foundation.
Granite Block on Sand Foundation.

The work may be done with one class of paving exclusively or divided among the several classes at the discretion of the Council.

Bids must be submitted on the regular blank forms of the Corporation of Suffolk, sealed and addressed to Simon M. Lawrence, Clerk of the Council.

The Council of the Corporation of Suffolk reserves the right to reject any or all of the bids submitted.

Instruction to Bidders, Specifications and General Stipulations on application. State what kind of work you wish to submit proposition on.

COL. J. H. McCLEARY,
Chairman.
LEE SHAFFER,
Engineer. 16-2t

WATER-WORKS SYSTEM.

Muskegon Heights, Mich., April 10, 1906.

Notice is hereby given that sealed proposals for the construction of a water-works plant will be received by Alex. Van Zantine, Recorder of the city of Muskegon Heights, Mich., until 2 o'clock P. M., the 30th day of April, 1906, at which time they will be publicly opened and read.

The plant will require:

Two pumps, each with a capacity of 1,000,000 gallons and each driven by an induction motor; steel stand-pipe, 16 × 100 feet, and foundation, and about seven miles of pipe, 4 to 10 inches, with specials for same; hydrants, gates, etc.

A certified check for $500.00 to accompany each bid. Usual bond will be required of contractor.

Committee reserve the right to reject any or all bids.

By order of the Common Council.

ALEX. VAN ZANTINE,
Recorder.

Specifications may be had by applying to R. J. Hosner, C. E. 16-2t

STEEL BRIDGE CABLES FOR SALE.

Pawnee, Okla.

The Board of County Commissioners of Pawnee County, Oklahoma, offer for sale eight (8) reels of one and one-half inch (1½) galvanized bridge cables, 1,190 feet each, manufacture of A. Leschen & Sons Rope Co.

Bids will be received for the same until 6 o'clock P. M. on May 14th, 1906, and the Board of Commissioners will meet at the office of the County Clerk in Pawnee, Oklahoma, on May 15th, 1906, at 1 o'clock P. M., at which time the bids will be opened.

A part or all of the cable will be sold, but bids for less than one reel (1,190 feet) will not be considered. Bids should be made for the cable F. O. B. Cleveland, Okla. (M. K. & T. R. R.), at which place the cables can be examined.

The right is reserved to reject any or all bids that may be offered. All correspondence should be addressed to C. R. Adams, County Clerk, Pawnee, Oklahoma, and bids sent to same address.

C. R. ADAMS,
County Clerk of Pawnee Co.,
(SEAL) Oklahoma Territory.
Pawnee, Okla., April 11, 1906. 16-2t

WATER METERS.

Bayonne, N. J.

Sealed proposals will be received and opened by the Council of the City of Bayonne, N. J., at a meeting to be held at the City Hall on Tuesday, May 1st, 1906, at eight o'clock P. M., for furnishing 20 one-inch and 80 ⅝-inch water meters. Bidders must leave a sample meter with the Water Department before the time of receiving bids.

The Council reserves the right to reject any or all bids.

W. C. HAMILTON,
16-1t City Clerk.

SEWER AND WATER PIPE, ETC.

Melrose, Mass.

Sealed proposals for furnishing the City of Melrose, Public Works Department, with various kinds of stock, will be received by the Engineer and Superintendent of Public Works of said City, at his office, City Hall Building, Melrose, Mass., until twelve (12) o'clock noon, Thursday, April 26, 1906, at which time and place all persons competing are invited to be present.

The proposals will then be opened and read, and no proposals will be received on any particular article of stock after the aforesaid time and date, except upon the rejection of all the proposals then presented on that particular article.

The estimated quantities of stock required are:

Water Pipe:
2,500 ft. 6" pipe, 900 ft. 10" pipe, 800 ft. 12" pipe.

Sewer Pipe:
2,000 ft. 15" pipe. 65 pcs. 15" × 8" Ys.
4,000 ft. 12" pipe. 200 pcs. 12" × 8" Ys.
1,500 ft. 8" pipe. 200 pcs. 5" assorted bends.
8,000 ft. 5" pipe. 100 pcs. 5" stoppers.
275 pcs. 8" stoppers.

Castings:
40 manhole frames and covers.
60 catch-basin traps.
60 catch-basin covers.

Brick:
110,000 sewer brick.
10,000 sidewalk brick.

Curbstone and Flagging. (No estimate of quantities.)

Lead and Lead Pipe:
6,000 lbs. pig lead.
500 lbs. wiping solder.
6,000 lbs. ¾-in. lead pipe, 3 lbs. per ft.

Gates, Valves and Hydrants:
10 6-in bell end water gates tested to 300 lbs.
2 12-in. bell end water gates tested to 300 lbs.
6 full 6-in. hydrants, 1 steamer and 2 hose, with frost jackets.

The above quantities are approximate only, and the said Engineer and Superintendent expressly reserves the right to increase or diminish them as he may deem advisable.

Bids on "water pipe," "sewer pipe," "castings," "brick," "curbstone and flagging," must be on the form furnished by the Public Works Department, which can be obtained on application.

Each proposal must be accompanied by a certified check for fifty (50) dollars, payable to the City of Melrose, which check will be returned to the bidder within three days after the contract is awarded, except the same is forfeited on the part of the bidder by a failure to enter into a contract to deliver the goods on which bid was made.

The said Engineer and Superintendent reserves the right to reject any or all proposals should he deem it for the best interests of the City of Melrose so to do.

W. DABNEY HUNTER,
Engr. and Supt. Public Works.
Melrose, Mass., April 16, 1906. 16-1t

LOCK-GATES.

Commonwealth of Massachusetts.
Charles River Basin Commission.
Boston, Mass.

Sealed proposals will be received at the office of the Charles River Basin Commission, 367 Boylston Street, Boston, Mass., until 2.30 o'clock P. M. of Monday, May 14th, 1906, for constructing and erecting two steel caisson lock-gates in the lock being built in the Charles river at the site of the proposed dam. The gates are to be about 47 feet long and 6 feet thick, one to be about 26 feet high and the other about 31 feet high. Pamphlets containing further information for bidders, forms of proposal, contract and specifications will be mailed to contractors who apply to the Chief Engineer, or may be obtained at his office, 367 Boylston Street, Boston, where also plans may be seen. The printed form must be used in making proposals. The Commission reserves the right to reject any or all proposals and to accept the proposal deemed best for the Commonwealth. HENRY S. PRITCHETT, Chairman; HENRY D. YERXA, JOSHUA B. HOLDEN, Charles River Basin Commission. HIRAM A. MILLER, Chief Engineer. WILLIAM S. YOUNGMAN, Secretary. 16-2t

ENGINEER OFFICE, U. S. ARMY, Wilmington, Del., April 14, 1906.—Sealed proposals for dredging Mispillion River, Del., will be received at this office until 11 A. M., April 30, 1906, and then publicly opened. Specifications, etc., furnished on application to this office. C. A. F. FLAGLER, Capt., Engrs. 16-2t

RE-PAVING, ETC.

Atlantic City, N. J.

Sealed bids or proposals, endorsed "Proposal for Repaving Pacific Avenue and Constructing Drainage Conduits," with the name of the person or corporation making the bid, will be received by the City Clerk of Atlantic City, at Council Chambers, in the City Hall, between the hours of 3.30 and 4.00 o'clock P. M., Monday, April 30th, 1906, during a session of City Council.

The City Engineer's estimate of the work to be done under the above title by which the bids will be tested is the furnishing and setting of:

25,700 sq. yds. Natural Lake Asphalt Pavement.
1,340 lin. ft. Bluestone Heading Stones.
1 Drainage System, complete, consisting of 27 lines of conduit as per plans, including new vitrified fire clay block gutters upon concrete around the 51 curb corners at the ends of the con duits.

Samples of Paving Materials and Certificates, in conformity with the requirements fully set forth in the Notice to Contractors, must be deposited with the City Engineer at his office before 5 o'clock P. M., Wednesday, April 25, 1906.

No proposal will be received or considered unless accompanied by a certified check upon a National or State Bank or Trust Company, drawn to the order of John A. Jeffries, City Treasurer, for the sum of Ten Thousand Dollars ($10,000).

Surety Company Bond will be required in the sum of one-half of the contract price for the entire work, based upon the estimated quantities herein given.

The City Council reserves the right to reject any or all bids if it shall deem it for the public interest so to do.

Blank forms of Proposal, Notice to Contractors, Contract and Specifications, and further information, if required, can be obtained upon application at the office of the City Engineer, Room 622 Bartlett Building, Atlantic City, N. J.

WALTER J. BUZBY,
JAMES B. REILLY,
JOHN S. WESTCOTT,
SAMUEL S. PHOEBUS,
THOMAS H. THOMPSON, } Street Committee of City Council.
J. W. HACKNEY, City Engineer. 16-1t

PROPOSALS TO CLEAN STREETS, AVENUES AND ALLEYS IN THE DISTRICT OF COLUMBIA will be received at the office of the Commissioners, 464 Louisiana Avenue, Washington, D. C., up to noon, of Monday, May 7, 1906. The work consists of (1) cleaning by machine sweeping paved streets and avenues; (2) cleaning public alleys; and (3) cleaning unimproved streets. Separate proposals will be received for each class of work. Specifications, forms of proposals, and all necessary information furnished on application to the Superintendent of Street Cleaning, Washington, D. C. HENRY B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners of the District of Columbia. 16-2t

FOR SALE

FOR SALE

32 6-yard K. and J. 2-way dump cars.
20 6-yard, 2-way Continental dump cars. NEW.
10 x 16 and 9 x 14 Vulcan saddle tanks.
36" Dump cars, 2, 2½, 3 and 4 yards.
Relaying and new rails, 25 to 70 pounds.

CHARLES F. AVERY,
45 Broadway, N. Y.

FOR SALE

A LITTLE GIANT TRACTION STEAM SHOVEL

CROWDING ENGINES ON BOOM

in good working condition and ready for immediate delivery. Suitable for brickyard yard work. Price, $2,500. Address
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